

Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of
International Comparison Requirements Pursuant
to the Broadband Data Improvement Act
International Broadband Data Report
GN Docket No. 09-47

FIRST REPORT

Adopted: August 27, 2010

Released: August 27, 2010

By the Chief, International Bureau:

I. INTRODUCTION

1. This inaugural International Broadband Data Report (IBDR) presents data and information on international broadband service capability pursuant to Section 1303 of the Broadband Data Improvement Act, which requires the Commission to include such information in its annual broadband deployment report. By the issuance of this report and the Commission's Sixth Broadband Deployment Report, the Commission meets this statutory obligation.

II. BACKGROUND

A. Requirements of the BDIA

2. The BDIA requires the Commission to, among other things, include in its annual broadband deployment report "information comparing the extent of broadband service capability (including data transmission speeds and price for broadband service capability) in a total of 75 communities in at least 25 countries abroad for each of the data rate benchmarks for broadband service

1 47 U.S.C. § 1303(b) (2010).

2 See 47 U.S.C. § 1302(b) (2010) (requiring the Commission to determine "whether advanced telecommunications capability is being deployed to all Americans in a reasonable and timely fashion"). Section 706 of the Telecommunications Act of 1996, Pub. L. No. 104-104, Title VII, Sec. 706, 110 Stat. 56, 153 (1996), as amended in relevant part by the Broadband Data Improvement Act, Pub. L. No. 110-385, 122 Stat. 4096 (2008) (BDIA), is now codified in Title 47, Chapter 12 of the United States Code. See 47 U.S.C. § 1301 et seq. In its Sixth Broadband Deployment Report, the Commission uses the term "broadband" synonymously with "advanced telecommunications capability." See Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications of 1996, as Amended by the Broadband Data Improvement Act: A National Broadband Plan for Our Future, GN Docket Nos. 09-137 and 09-51, Sixth Broadband Deployment Report, FCC 10-129 (rel. July 20, 2010) (Sixth Broadband Deployment Report).

3 Sixth Broadband Deployment Report.

utilized by the Commission to reflect different speed tiers.”⁴ For this comparison, the BDIA directs the Commission to choose international communities comparable to U.S. communities with respect to population size, population density, topography, and demographic profile.⁵ The Commission is also directed to include “a geographically diverse selection of countries” and “communities including the capital cities of such countries.”⁶ The Commission must also identify a number of specific similarities and differences in each community, including “their market structures, the number of competitors, the number of facilities-based providers, the types of technologies deployed by such providers, the applications and services those technologies enable, the regulatory model under which broadband service capability is provided, the types of applications and services used, business and residential use of such services, and other media available to consumers.”⁷

B. Public Comment and Research

3. The Commission sought comment on how to implement certain provisions of the BDIA, including the international comparison requirement.⁸ Carriers, public interest groups, and other interested members of the public submitted comments, including comments on the broadband survey conducted by the Organisation for Economic Co-operation and Development (OECD).⁹

4. In preparing the *IBDR*, we relied on public data and information gathered by the Commission staff, including a number of efforts to obtain data and information from entities in foreign countries.¹⁰ We also reviewed portions of the record developed in the Commission’s Section 706 and National Broadband Plan proceedings, including the broadband report prepared by the Berkman Center for Internet and Society at Harvard University, that relate to the international comparison requirement in the BDIA.¹¹

5. Informed by the various sources noted above and recognizing that no single existing public data source would satisfy all of the requirements of the BDIA,¹² staff gathered information for actual prices advertised to consumers for broadband services in different parts of the world from the websites of competitive and new entrant broadband providers.¹³ This speed and pricing dataset is

⁴ 47 U.S.C. § 1303(b).

⁵ *Id.*

⁶ *Id.*

⁷ 47 U.S.C. § 1303(b)(3).

⁸ See *Comment Sought on International Comparison and Consumer Survey Requirements in the Broadband Data Improvement Act*, GN Docket No. 09-47, Public Notice, 24 FCC Rcd 3908 (2009) (*BDIA Public Notice*). Comments were received by April 10, 2009, and replies were received by April 17, 2009.

⁹ See Comcast BDIA Comments at 3-6; NCTA BDIA Reply Comments at 3; Verizon BDIA Reply Comments at 1-2, 8; New York Ratepayers Advocate BDIA Reply Comments at 3. More information on the OECD survey can be found at the “OECD Broadband Portal” webpage, available at <http://www.oecd.org/sti/ict/broadband>.

¹⁰ See Appendix A *infra*.

¹¹ See generally <http://www.broadband.gov>. The Commission conducted two public workshops focused specifically on international issues. See http://broadband.gov/ws_int_lessons.html and http://broadband.gov/ws_global_bb.html. See also Berkman Center for Internet and Society, Harvard University, Next Generation Connectivity: A Review of Broadband Internet Transitions and Policy From Around the World (2010), available at http://cyber.law.harvard.edu/publications/2010/Next_Generation_Connectivity (providing direction to sources of information on many countries’ broadband situation).

¹² See, e.g., Verizon BDIA Comment at 13; NCTA BDIA Reply at 2 (stating that no one source would satisfy all the requirements of the BDIA).

¹³ See Appendix C *infra*.

included in Appendix C of the *IBDR*. Commission staff also gathered community-level data and information from the OECD, broadband adoption data from the European Commission's regional data,¹⁴ and other data from individual government agencies, either through the national statistical agency or the communications ministry and/or regulator.¹⁵ This community dataset is included in Appendix D. Finally, staff gathered information about the broadband market and broadband regulations in various countries around the world.¹⁶ This information is contained in Appendix E. We discuss the data that we collected in more detail below.¹⁷

III. DISCUSSION

A. Broadband Service Capability

6. The primary task that the BDIA sets forth for the Commission is to gather information on the "broadband service capability" in foreign communities.¹⁸ More specifically, the Commission is directed to include "data transmission speeds and price for broadband service capability."¹⁹ The BDIA further directs the Commission to collect this information such that it can be compared to the data rate benchmarks used by the Commission "to reflect different speed tiers."²⁰

7. The term "broadband service capability" is not defined in the BDIA or its legislative history. In view of the usage of the phrase in the BDIA, we find it reasonable to conclude that the phrase refers to the availability of broadband service offerings in foreign communities comparable to broadband Internet access service offerings in the United States.²¹

8. Speed is a quantitative description of the information transfer rate of a broadband Internet

¹⁴ Eurostat is the Statistical Office of the European Communities situated in Luxembourg. Its task is to provide the European Union with statistics at a European level that enable comparisons between countries and regions. See http://epp.eurostat.ec.europa.eu/portal/page/portal/region_cities/introduction.

¹⁵ See Appendix D *infra*.

¹⁶ See Appendix E *infra*.

¹⁷ There are some differences between the countries included for each dataset in this *IBDR*; those differences are primarily due to data availability. See Appendix B *infra*.

¹⁸ 47 U.S.C. § 1303(b)(1).

¹⁹ *Id.*

²⁰ See *Development of Nationwide Broadband Data to Evaluate Reasonable and Timely Deployment of Advanced Services to All Americans, Improvement of Wireless Broadband Subscriber Data, and Development of Data on Interconnected Voice over Internet Protocol (VoIP) Subscriber Data*, WC Docket No. 07-38, Report and Order and Further Notice of Proposed Rulemaking, 23 FCC Rcd 9691 (2008); Order on Reconsideration, 23 FCC Rcd 9800 (2008) (*Form 477 Order*).

²¹ See *Inquiry Concerning High-Speed Access to the Internet Over Cable and Other Facilities; Internet Over Cable Declaratory Ruling; Appropriate Regulatory Treatment for Broadband Access to the Internet Over Cable Facilities*, GN Docket No. 00-185 & CS Docket No. 02-52, Declaratory Ruling and Notice of Proposed Rulemaking, 17 FCC Rcd 4798 (2002), *aff'd*, *Nat'l Cable & Telecomms. Ass'n v. Brand X Internet Services*, 125 S. Ct. 2688 (2005) (*NCTA v. Brand X*); *Appropriate Framework for Broadband Access to the Internet over Wireline Facilities; Universal Service Obligations of Broadband Providers; Review of Regulatory Requirements for Incumbent LEC Broadband Telecommunications Services; Computer III Further Remand Proceedings et al.*, CC Docket Nos. 02-33, 01-337, 95-20, and 98-10 & WC Docket Nos. 04-242 and 05-271, Report and Order and Notice of Proposed Rulemaking, 20 FCC Rcd 14853 (2005), *petitions for review pending*, *Time Warner Telecom v. FCC*, No. 05-4769 (and consolidated cases) (3rd Cir. filed Oct. 26, 2005); *United Power Line Council's Petition for Declaratory Ruling Regarding the Classification of Broadband over Power Line Internet Access Service as an Information Service*, WC Docket No. 06-10, Memorandum Opinion and Order, 21 FCC Rcd 13281 (2006); *Appropriate Regulatory Treatment for Broadband Access to the Internet Over Wireless Networks*, Declaratory Ruling, 22 FCC Rcd 5901 (2007).

access service. We note that in the *Sixth Broadband Deployment Report*, the Commission set a threshold for determining broadband availability as a transmission service offering actual download (*i.e.*, to the customer) speeds of at least 4 Mbps and actual upload (*i.e.*, from the customer) speeds of at least 1 Mbps.²² The Commission collects subscribership data on the offered speeds of broadband Internet access service in the United States through its Form 477, which requires providers to report their broadband service offerings using different speed tiers.²³ We have collected, for purposes of the BDIA, information on speeds offered in foreign communities in the formats available for those countries, which do not always align with the Form 477 categories.²⁴ This information is contained in Appendix C of this *IBDR*.

9. The BDIA further directs the Commission to collect information regarding the price of broadband service capability. Thus, Commission staff also compiled in Appendix C a dataset composed of publicly available pricing information for broadband services in 34 countries, most of which are members of the OECD. Commission staff collected this pricing information between July and August 2009.²⁵ The dataset includes a range of broadband offers by all major Internet service providers for these 34 countries.²⁶ The countries in our dataset represent a broad spectrum of broadband markets. We have converted all prices in local currencies to U.S. dollars based on purchasing power parity (PPP).²⁷ These

²² *Sixth Broadband Deployment Report*, at ¶ 5.

²³ See *Form 477 Order*.

²⁴ We have collected information on advertised speeds, which typically feature “up to” download and upload speeds. Actual performance experienced by consumers can vary from the advertised speeds. The National Broadband Plan has recommended that the Commission, in coordination with the National Institute of Standards and Technology, establish technical broadband measurement standards and methodology and a process for updating them. Key characteristics to be measured may include: actual speeds and performance over the broadband service provider’s network and the end-to-end performance of the service; actual speeds and performance at peak-use hours; actual speeds and performance achieved with a given probability over a period of time that include peak use times; and actual speeds and performance tested against a given set of standard protocols and applications. See FCC, Omnibus Broadband Initiative, Connecting America: The National Broadband Plan, GN Docket No. 09-51, at 44-45 (2010). In future *IBDR* reports, we will evaluate what data are available for actual performance for communities in foreign countries.

²⁵ See Appendix C *infra*. We assembled the data by visiting the websites of broadband providers serving the countries and communities in our sample. In order to mitigate the effects of price variations over time, we visited the homepages of providers and downloaded the relevant information from July to August in 2009. In certain cases (*e.g.*, Japan and Singapore), we supplemented the information obtained from providers with information obtained from the country’s diplomatic mission. For some countries in the dataset, we were able to determine whether the offerings were on a national or community level. Many advertised offerings were national in scope, though some were listed for particular cities or on an “as available” basis.

²⁶ For each of the European countries in the dataset, we obtained a list of incumbent operators and their competitors from the European Commission’s 2008 report on broadband Internet access prices. See *Broadband Internet Access Cost (BIAC)*, Final Report, prepared for the European Commission, Information Society and Media Directorate-General, by Van Dijk Management Consultants, December 2008, Brussels, Belgium, available at http://ec.europa.eu/information_society/eeurope/i2010/docs/benchmarking/broadband_access_costs_1st_half_2008.pdf. For non-European countries in the dataset, we obtained our list of incumbent operators and their competitors through staff research.

²⁷ PPPs are currency conversion rates that both convert to a common currency and equalize the purchasing power of different currencies. In other words, they eliminate the differences in price levels between countries in the process of conversion. PPPs show the ratio of the prices in national currencies of the same good or service in different countries. For example, if the price of a hamburger in France is €2.84 and in the United States it is \$2.20, then the PPP for hamburger between France and the United States is €2.84 to \$2.20, or €1.29 to the dollar. This means that for every dollar spent on hamburger in the United States, €1.29 would have to be spent in France to obtain the same quantity and quality of hamburger. See OECD, Statistics Directorate webpage, available at http://oecd.org/department/0,3355,en_2649_34357_1_1_1_1,00.html and FAQ webpage, available at http://oecd.org/faq/0,3433,en_2649_34357_1799281_1_1_1_1,00.html#1799063.

converted prices allow more meaningful international price comparisons of broadband services.²⁸

10. For each broadband Internet service offering, we collected information on advertised monthly recurring charges and nonrecurring charges including connection and modem charges. The dataset includes not only the advertised price, but also includes information on promotional price discounts such as bundling with voice or video service, and the length of the service contract.²⁹ Collecting information on advertised and promotional prices may be helpful for analyzing competition because advertised prices are focused on winning new customers or keeping customers considering switching providers.

11. Broadband Internet service prices include both recurring and non-recurring charges. Therefore, our dataset includes all monthly charges, such as line rental charges that subscribers must pay before they can gain access to broadband services. The dataset also includes non-recurring installation or set-up charges to capture the full cost of access to broadband. Monthly prices for broadband service may vary depending on whether or not a rental fee for a modem is included in the basic price.

12. We included the upload and download speeds for each broadband service offering and the monthly prices associated with those speeds. Where providers expressly included limitations on download and upload capacity in their service offerings, our dataset identifies such restrictions on usage. The pricing dataset also includes information on the types of technology used, including DSL, cable, fiber to the home, fixed wireless, and public WiFi.

13. This dataset also contains a number of offers that include other services such as voice or video in combination with a broadband service. International comparisons would be facilitated if they involved only stand-alone broadband service offerings, rather than broadband Internet access service in combination with one or more other offerings. However, we encountered numerous variations of bundled service offerings in different countries, making it more difficult to compare prices between communities and countries, or even between competing offerings of different providers within a single community.

14. Our dataset includes a range of retail broadband Internet service prices. While price variation may reflect broadband competition, penetration, availability, geographical and topological variation, and usage, it may also simply reflect the fact that different broadband services are not identical or even similar across countries and communities. And our data collection has confirmed that broadband service is far from homogenous. It varies with respect to download and upload speeds; type of technology used to deliver broadband services; and limitations on use, including limits on upload and download volumes.

B. Community

15. In addition to requiring the Commission to gather data and information on broadband service capability, the BDIA also directs the Commission to include a comparison of broadband development at the community level between and among comparable communities. The BDIA requires the Commission to choose communities that are similar to U.S. communities in terms of population size, population density, topography, and demographic profile.

16. “Community” is not explicitly defined in the BDIA or its legislative history. We

²⁸ Meaningful international PPP price comparisons are easier to achieve when the prices paid are for the same or similar service in each country. Since that is not generally the case for broadband service, as further explained below, we have assembled data on various service attributes in each country or community – such as upload and download speeds, non-recurring charges, promotional discounts, and the like – and associated those attributes with the price data. This approach enables useful international price comparisons.

²⁹ Because we obtained the information for the dataset over a limited period of time, we were not able to determine which offers are regularly available and which are significant departures from regularly available offers. Therefore, while ideally we would include only widely and regularly available offerings, we necessarily include information on a variety of non-standard offers such as special, promotional, or other limited offers.

recognize that community is commonly defined as (1) a unified body of individuals such as a state, or commonwealth; (2) people with common interests living in a particular area; and (3) a group of people with a common characteristic or interest living together within a larger society.³⁰ In view of the usage of the phrase in the BDIA, including its direction that the “communities” include the capital of foreign countries, we conclude that a community is a geographical unit smaller than a nation-state.³¹

17. Commenters also proposed that the Commission consider comparing communities of types of users, such as individuals with hearing loss.³² While we see value in such an approach, in this initial report we focus primarily on geographically defined communities. We believe that the primary intent of Congress in adopting this section of the BDIA was to create a more geographically disaggregated and detailed set of broadband-related data than used in previous comparisons of countries, and this guides our analysis.

18. As noted above, the BDIA directs the Commission to select communities from a geographically diverse set of countries.³³ We have considered commenters’ suggestions on which countries to include. For example, Verizon suggests including countries from the OECD because they are geographically diverse as well as other countries with the highest level of gross domestic product, such as China, India, and Brazil.³⁴ Based on the comments, and because we find the statutory purpose of the BDIA is to develop a geographically disaggregated and detailed set of data on international broadband deployment, we adopted two criteria to guide the selection of countries and communities. The first is *inclusivity*: We attempted to capture as full an international profile as possible, embracing communities from all parts of the world. The second is *data availability*: We included only communities for which a substantially complete set of the relevant information is available. These two criteria resulted in a dataset that exceeds the statutory minimum requirements of 25 countries and 75 communities, and includes communities from almost all countries with significant broadband deployment.³⁵

19. The BDIA also specifically requires that we collect data on “population size, population density, topography, and demographic profile.”³⁶ Accordingly, for each foreign community, we examine population size, population density, topography, and a number of additional criteria we include to give meaning to the term “demographic profile.” To assess what additional demographic or other factors to include in the information we collected for each community profile, we reviewed major public databases that collect economic, social, and demographic data, including the World Bank’s Development Indicators,³⁷ the International Telecommunication Union’s (ITU) World Telecommunication Indicators,³⁸ the OECD’s regional statistics database,³⁹ Eurostat’s regional statistics database,⁴⁰ and those maintained

³⁰ See, e.g., Merriam-Webster Dictionary *available at* <http://www.merriam-webster.com/dictionary/community>; Black’s Law Dictionary, 8th Ed. (2004).

³¹ See Verizon BDIA Comments at 4 (suggesting that we select the capital city (urban), suburb, and rural community in each country).

³² See COAT BDIA Comments at 2; Inclusive Tech BDIA Comments at 1.

³³ 47 U.S.C. § 1302(b).

³⁴ All three are ranked in the top fifteen countries as measured by GDP. Verizon BDIA Comments at 3-4.

³⁵ There are some differences in the countries included for each dataset contained in this Report. Those differences are primarily due to data availability. See Appendix B *infra*.

³⁶ 47 U.S.C. § 1302(b)(2).

³⁷ See <http://go.worldbank.org/U0FSM7AQ40>.

³⁸ See <http://www.itu.int/ITU-D/ict/publications/world/world.html>.

³⁹ See <http://oecd.org/gov/regional/statisticsindicators/explorer/>.

⁴⁰ See http://epp.eurostat.ec.europa.eu/portal/page/portal/region_cities/introduction.

by countries' national statistical agencies. We also looked at studies and existing national broadband plans from other countries to determine which indicators would reflect the factors that are typically expected to influence broadband adoption. Based on our review of these sources, we determined that three additional variables are particularly likely to be of importance in understanding international broadband service capability: (1) education within the community (percentage of labor force with tertiary education); (2) total income for the community (GDP, in current U.S. dollars, adjusted for purchasing power parity); and (3) income per capita within the community (GDP per capita, in current U.S. dollars adjusted for purchasing power parity).

20. The information in the dataset for the variables listed in paragraph 19 *supra*, which is generally set forth in Appendix D,⁴¹ is drawn mainly from two sources: the OECD's regional statistics⁴² and the European Commission's Eurostat regional data.⁴³ We note that data at the national level for the variables listed above are generally available annually. Community-level information, however, is collected less frequently. Accordingly, we provided the most recent publicly-available data (ranging from 2005-2008) for each variable in the community dataset.⁴⁴ Data for communities not covered by the OECD and Eurostat are drawn from individual government agencies, either through the national statistical agency, the communications ministry or communications regulator.⁴⁵

C. Other Relevant Similarities and Differences

21. In addition, the BDIA directs the Commission, for the foreign communities selected, to identify "relevant similarities and differences" for several criteria including, among others: the market structure, types of technologies, regulatory model, and other media available to consumers.⁴⁶ For each foreign country from which communities are included in the *IBDR*, Commission staff has collected, in Appendix E of this *IBDR*, information on topography; the regulatory environment, including national broadband plans; the market structure, including the number of competitors, broadband penetration, and the types of network technologies deployed; types of applications and services used; and other media available to consumers. In most cases, we have only been able to obtain relevant information at the national level for these criteria; however, we believe such information generally is applicable at the community level.⁴⁷

IV. CONCLUSION

22. In conjunction with the Commission's adoption of the *Sixth Broadband Deployment*

⁴¹ Information on topography is included in Appendix E of this *IBDR*. See *infra* ¶ 21 and Appendix E.

⁴² The OECD data are available at <http://stats.oecd.org>.

⁴³ See http://epp.eurostat.ec.europa.eu/portal/page/portal/region_cities/introduction.

⁴⁴ For the percentage of households with broadband, the Eurostat data are mostly from 2008, but a small number are from 2006 or 2007.

⁴⁵ See "Sources" in Appendix D *infra*. It is possible that communities may not be comparable sub-national units depending on the data source. Nevertheless, our demographic data and methodology attempt to address concerns raised by commenters such as AT&T, that encourage us to conduct "apples-to-apples" comparisons and that we account for a variety of different factors such as income, education, and age, among others, that may influence broadband deployment and adoption. AT&T BDIA Comments at 3.

⁴⁶ The listed criteria includes the number of competitors, the number of facilities-based operators, the types of technology deployed, applications and services enabled by those technologies, types of applications and services used, business and residential use of such services, and other media available to consumers. Section 103(b)(3) also directs the Commission to identify topography for selected foreign communities.

⁴⁷ See Appendix E *infra* (presenting national level information such as broadband penetration, topography, as well as specific criteria required by the BDIA including market structure, number of competitors, number of facilities-based providers, technologies deployed, regulatory model, and other media available to consumers).

Report, the release of this *IBDR* fulfills the obligation imposed by Section 1303 of the Broadband Data Improvement Act, which requires the Commission to include in its annual broadband deployment report “information comparing the extent of broadband service capability (including data transmission speeds and price for broadband service capability) in a total of 75 communities in at least 25 countries abroad for each of the data rate benchmarks for broadband service utilized by the Commission to reflect different speed tiers.”⁴⁸

V. ORDERING CLAUSE

23. IT IS ORDERED that, pursuant to Section 1303(b) of the Broadband Data Improvement Act, 47 U.S.C. § 1303(b), and pursuant to authority delegated to the International Bureau in Section 0.261 of the Commission's rules, 47 C.F.R. § 0.261, this *IBDR*, with its associated Appendices A-E, is ADOPTED.

FEDERAL COMMUNICATIONS COMMISSION

Mindel De La Torre
Chief, International Bureau

⁴⁸ 47 U.S.C. § 1303(b).

APPENDIX A: PUBLIC RECORD**Docket GN 09-47 (Broadband Data Improvement Act)****International Bureau Letters**

Letters were sent to regulators and government agencies in Australia, Austria, Belgium, Brazil, Canada, Chile, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Hungary, Ireland, Israel, Italy, Japan, Jordan, Lithuania, Netherlands, New Zealand, Nigeria, Norway, Poland, Portugal, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, United Arab Emirates and United Kingdom. These letters may be retrieved through the Commission's Electronic Comment Filing System, under GN Docket No. 09-47.

Comments (April 10, 2009)

AT&T
BluePrint
Coalition of Organizations for Accessible Technology (COAT)
Comcast
Inclusive Technologies
Johannes Bauer
J. Scott Marcus
USTA
Verizon
XO

Reply Comments (April 17, 2009)

AT&T
Keith Mallinson
NATO
NCTA
NYS CIO
NJ Division of Rate Counsel (NJ Rate)
Time Warner Cable (TWC)
Verizon

APPENDIX B: Countries Included in the *IBDR*

| COUNTRIES | Appendix C: Broadband Price Dataset | Appendix D: Demographics Dataset | Appendix E: Market and Regulatory Background |
|------------------|--|---|---|
| Australia | X | X | X |
| Austria | X | X | X |
| Belgium | X | X | X |
| Bulgaria | X | X | X |
| Canada | | X | X |
| Chile | | X | X |
| Cyprus | X | X | X |
| Czech | X | X | X |
| Denmark | X | X | X |
| Estonia | X | X | X |
| Finland | X | X | X |
| France | X | X | X |
| Germany | X | X | X |
| Greece | X | X | X |
| Hong Kong | X | X | X |
| Hungary | X | X | X |
| Iceland | X | X | X |
| Ireland | X | | X |
| Italy | X | X | X |
| Japan | X | X | X |
| Korea | X | X | X |
| Latvia | X | X | X |
| Lithuania | X | X | X |
| Luxemburg | X | X | X |
| Malta | X | X | X |
| Netherlands | X | X | X |
| Norway | X | X | X |
| Poland | X | X | X |
| Portugal | X | X | X |
| Romania | X | X | X |
| Singapore | X | X | X |
| Slovakia | X | X | X |
| Slovenia | X | X | X |
| Spain | X | X | X |
| Sweden | X | X | X |
| Taiwan | | X | X |
| U.K. | X | X | X |

APPENDIX C: Broadband Price Dataset

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ¹ | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Notational Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Late Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|-----------|----------------------------|--------------------|--|--|--------------------|---|--|------------------|--------------------------------------|--|----------------------------------|--|----------------------------|---|----------------------------|-------------------|-------------|---|
| Australia | Telstra Bigpond | Incumbent | 48% | Bigpond Cable Standard 200 MB | Cable | 8Mbps/28kpbs | | Aus Dollar | \$39.95 | \$20.40 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 200 MB | http://www.bigpond.com/home |
| | Telstra Bigpond | Incumbent | | Bigpond Cable Standard 400 MB | Cable | 8Mbps/28kpbs | | Aus Dollar | \$39.95 | \$27.21 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 400 MB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 12 GB | Cable | 8Mbps/28kpbs | | Aus Dollar | \$59.95 | \$40.84 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 12 GB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 25 GB | Cable | 8Mbps/28kpbs | | Aus Dollar | \$79.95 | \$54.46 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 25 GB | |
| | Telstra Bigpond | Incumbent | | Bigpond Cable Extreme Highspeed 200MB | Cable | Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere | | Aus Dollar | \$39.95 | \$27.21 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 200 MB | |
| | Telstra Bigpond | Incumbent | | Bigpond Cable Extreme Highspeed 400MB | Cable | Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere | | Aus Dollar | \$49.95 | \$34.03 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 400 MB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 12 GB | Cable | Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere | | Aus Dollar | \$69.95 | \$47.66 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 12 GB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 25 GB | Cable | Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere | | Aus Dollar | \$89.95 | \$61.27 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 25 GB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 60 GB | Cable | Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere | | Aus Dollar | \$129.95 | \$88.52 | Self installation | | \$15.75 | Double play / full service phone | 12 months | No | 60 GB | |
| | Telstra Bigpond | Incumbent | | ADSL Broadband 200 MB | ADSL | 25664kpbs | | Aus Dollar | \$29.95 | \$20.40 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 200 MB | http://www.bigpond.com/home |
| | Telstra Bigpond | Incumbent | | ADSL Broadband 12 GB | ADSL | 25664kpbs | | Aus Dollar | \$59.95 | \$40.84 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 12 GB | http://www.bigpond.com/home |
| | Telstra Bigpond | Incumbent | | ADSL Broadband 400 MB | ADSL | 1500256kpbs | | Aus Dollar | \$39.95 | \$27.21 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 400 MB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 12 GB | ADSL | 1500256kpbs | | Aus Dollar | \$69.95 | \$47.66 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 12 GB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 25 GB | ADSL | 1500256kpbs | | Aus Dollar | \$79.95 | \$54.46 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 25 GB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 60 MB | ADSL | around 6 to 10 Mbps or more | | Aus Dollar | \$59.95 | \$40.84 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 600 MB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 12 GB | ADSL | around 6 to 10 Mbps or more | | Aus Dollar | \$89.95 | \$61.27 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 12 GB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 25 GB | ADSL | around 6 to 10 Mbps or more | | Aus Dollar | \$99.95 | \$68.09 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 25 GB | |
| | Telstra Bigpond | Incumbent | | Bigpond Liberty 60 GB | ADSL | around 6 to 10 Mbps or more | | Aus Dollar | \$149.95 | \$102.15 | Self installation | \$29.95 | \$25.75 | Double play / full service phone | 12 months | No | 60 GB | |
| Australia | Internode | Entrant | | Home-256-Express | ADSL | 25664 kbps | | Aus Dollar | \$34.95 | \$23.81 | \$79 | \$39.00 | being your own or pay \$99 | No | 24 months | | 5 GB | |
| | Internode | Entrant | | Home-512-Starter | ADSL | 512/128 kbps | | Aus Dollar | \$39.95 | \$27.21 | \$79 | \$39.00 | being your own or pay \$99 | No | 24 months | | 5 GB | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ⁴ | Broadband Service Offerings (name/Description) | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service (Contiguous or National Land) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges in-Lane Rental, Leasing Charge | Modem Rental Charge | Broadband Bundled with other services (Triple Play) | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|---------|----------------------------|--------------------|--|--|--------------------|---|---|------------------|--------------------------------------|--|--|---|---------------------|---|----------------------------|----------------------|-------------|---|
| | Optus | Entrant | | Month to month broadband | Cable | 128 kbps | Sydney, Melbourne and Brisbane | Aus Dollar | \$297.89 | \$302.92 | \$148 | 0 | | Double play | month to month | | 30GB | |
| Austria | Telecom Austria | Incumbent | 42% | Avon Broadband Duo (add on) | DSL / WLAN | up to 163.84 / 1.024 kbps | National | Euro | 299 | \$341.7 | Self: 29.90; On-site: 131.00 | none | 39.90 | DSL and WLAN (with separate mobile card) | 18 Months | No | | http://www.telekom.at/retail/produkte/ab/ab-48 http://www.telekom.at/retail/produkte/ab/ab-48-2 http://www.telekom.at/retail/produkte/ab/ab-48-3 |
| | Telecom Austria | Incumbent | | Internet Booster (add on) | DSL | up to 7.2 Mbps / 1.4 Mbps | National | Euro | 9.9 | \$11.31 | none | none | none | Add-on to DSL | | | | |
| | Telecom Austria | Incumbent | | Avon Flex (add on to Broadband) | WLAN | up to 2.2 Mbps / 1.4 Mbps | National | Euro | 7.9 | \$9.03 | none | Activation: 49.00 | none | Add-on to Bundle | 12 Months | No | | |
| | Telecom Austria | Incumbent | | Avon Par | WLAN | up to 2048 kbps upstream, 384 kbps downstream | National | Euro | 39.9 | \$45.60 | Self: 29.90; On-site: 131.00 | Manufacturing: 167.00 | Modem not included | No | No | No | | |
| | Telecom Austria | Incumbent | | Avon Par | WLAN | up to 4096 kbps upstream, 512 kbps downstream | National | Euro | 59.9 | \$68.46 | Self: 29.90; On-site: 131.00 | Manufacturing: 167.00 | Modem not included | No | No | No | | |
| | Telecom Austria | Incumbent | | Avon Kombi | DSL | up to 8 Mbps downstream and 786 kbps up | National | Euro | 34.9 | \$39.89 | Self: 29.90; On-site: 131.00 | Manufacturing: 167.00 | Included | DSL, Phone | 12 Months | No | | |
| | Telecom Austria | Incumbent | | Avon Super Kombi | DSL | up to 8 Mbps downstream and 768 kbps upstream | National | Euro | 39.9 | \$45.60 | Self: 29.90; On-site: 131.00 | Manufacturing: 167.00 | Included | DSL, Phone, Cable | 13 Months | No | | |
| | Telecom Austria | Incumbent | | Avon Blitz Light | FTTH | Down Stream 2 Mbps, upstream 2 Mbps | contiguous districts of Vienna (10, 11, 12, 16, 22, and 23) | Euro | 29.9 | \$34.17 | none | none | none | No | No | No | | |
| | Telecom Austria | Incumbent | | Avon Blitz Pro | FTTH | 10 Mbps / 10 Mbps | contiguous districts of Vienna (10, 11, 12, 16, 22, and 23) | Euro | 39.9 | \$45.60 | none | Activation: 60.00 | none | No | No | No | | |
| Austria | Tele2 | Entrant | | Full Pipe Extra | DSL | 8192 Mbps / 768 kbps | National | Euro | 24.9 | \$28.46 | Modem Activation: 25.00 | Production Line: 39.90 | Included | DSL, VOIP | 12 Months | 14.95 First 3 Months | | http://www.tele2.at/voip/extra.html |
| | Tele2 | Entrant | | Full Pipe XL | DSL | 16 Mbps / 1 Mbps | National | Euro | 39.9 | \$45.60 | Modem Activation: 25.00 | Production Line: 39.90 | Included | DSL, VOIP | 12 Months | 29.90 First 3 Months | | |
| | Tele2 | Entrant | | Full Pipe XXL Under 30 | DSL | 16 Mbps / 1 Mbps | National | Euro | 34.9 | \$39.89 | Modem Activation: 25.00 | Production Line: 39.90 | Included | DSL, VOIP | 12 Months | 24.90 First 3 Months | | |
| | Tele2 | Entrant | | Full Pipe XXL | DSL | 20 Mbps / 1 Mbps | National | Euro | 49.9 | \$57.03 | Modem Activation: 25.00 | Production Line: 39.90 | Included | DSL, VOIP | 12 Months | 39.90 First 3 Months | | |
| Austria | UPC | Entrant | | Chello Fun | Cable | 8 Mbps / 786 kbps | National | Euro | 22.9 | \$26.17 | Connection Fee: 39.90 | Activation: 25.00 | Included | No | 12 Months | No | | http://www.upc.at/chello |
| | UPC | Entrant | | Chello Fun & Phone | Cable | 8 Mbps / 786 kbps | National | Euro | 29.9 | \$34.17 | Connection Fee: 39.90 | Activation: 25.00 | Included | DSL, VOIP | 12 Months | No | | |
| | UPC | Entrant | | Chello Classic | Cable | 25 Mbps / 1.5 Mbps | National | Euro | 49 | \$56.00 | Connection Fee: 39.90 | Activation: 25.00 | Included | No | 12 Months | No | | |
| | UPC | Entrant | | Chello Student | Cable | 25 Mbps / 1.5 Mbps | National | Euro | 35 | \$40.00 | Connection Fee: 39.90 | Activation: 25.00 | Included | No | 12 Months | No | | |
| | UPC | Entrant | | Chello Plus | Cable | 30 Mbps / 2 Mbps | National | Euro | 69 | \$78.86 | Connection Fee: 39.90 | Activation: 25.00 | Included | No | 12 Months | No | | |
| | UPC | Entrant | | Fiber Power Ultra | FTTH | 100 Mbps / 10 Mbps | Vienna - certain districts | Euro | 74 | \$84.57 | none | none | none | No | 12 Months | No | | |
| | UPC | Entrant | | inside-ADSL Simple | DSL | 8 Mbps / 786 kbps | National | Euro | 12.9 | \$14.74 | Connection Fee: 39.90; On-site (if requested): 120 | Activation: 25.00 | Included | No | 12 Months | No | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Outside of National Land) | Foreign Currency | Monthly Charge in Foreign Currency | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|----------|------------------------------|--------------------|--|--|--------------------|---|---|------------------|------------------------------------|--|---|--|----------------------|---|----------------------------|-------------------|-------------|---|
| | UPC | Entrant | | inside ADSL, Strong | DSL | 16 Mbps / 1 Mbps | National | Euro | 22.9 | \$26.17 | Connection Fee: 59.90; On-site (if requested): 25.00; | Included | No | No | 12 Months | No | | |
| | UPC | Entrant | | inside ADSL, sub | DSL | 8 Mbps / 786 kbps | National | Euro | 28.9 | \$33.03 | Connection Fee: 59.90; On-site (if requested): 25.00; | Included | No | No | 12 Months | No | | |
| Belgium | Belgacom | Incumbent | 46% | Internet Bridge | DSL | 1000 kbps / 128 kbps | National | Euro | 20 | \$21.81 | Self Fee; On-site: 129-229 (depending on number of devices) | Included | No | No | 12 Months | 6 months at 1000 | | http://www.belgacom.be/infocentre/abonnes/consultation/consultation.asp?tbl=tbl_infocentre |
| | Belgacom | Incumbent | | Internet Light | DSL | 4 Mbps / 256 kbps | National | Euro | 31.55 | \$34.41 | Self Fee; On-site: 129-229 (depending on number of devices) | Included | No | No | 12 Months | No | | |
| | Belgacom | Incumbent | | Internet Go | DSL | 12 Mbps / 1 Mbps | National | Euro | 41.75 | \$45.53 | Self Fee; On-site: 129-229 (depending on number of devices) | Included | No | No | 12 Months | No | | |
| | Belgacom | Incumbent | | Internet Plus | DSL | 18 Mbps / 1 Mbps | National | Euro | 57.05 | \$62.21 | Self Fee; On-site: 129-229 (depending on number of devices) | Included | No | No | 12 Months | No | | |
| Belgium | KPN Tele2 (previously Tele2) | Entrant | | ADSL 1MB | DSL | 1000 kbps / 256 kbps | National | Euro | 19.9 | \$21.70 | Self Fee; On-site: 99 (depending on number of devices) | One time: 72 | No | No | n/a | No | | http://www.tele2.be/infocentre/abonnes/consultation.html |
| | KPN Tele2 (previously Tele2) | Entrant | | ADSL 4MB | DSL | 4 Mbps / 256 kbps | National | Euro | 29.9 | \$32.61 | Self Fee; On-site: 99 (depending on number of devices) | One time: 72 | No | No | n/a | No | | |
| | KPN Tele2 (previously Tele2) | Entrant | | Pure ADSL 4MB | DSL | 4 Mbps / 256 kbps | National | Euro | 34.9 | \$38.06 | Self Fee; On-site: 99 (depending on number of devices) | One time: 72 | No | No | n/a | 1 year at 24.90 | | |
| | KPN Tele2 (previously Tele2) | Entrant | | Pure ADSL 12MB | DSL | 12 Mbps / 1 Mbps | National | Euro | 44.9 | \$48.96 | Self Fee; On-site: 99 (depending on number of devices) | One time: 72 | No | No | n/a | 1 year at 34.90 | | http://abonnes.tele2.be/infocentre/abonnes/consultation.html |
| Belgium | Telenet | Entrant | | BasicNet | Cable | 1000 kbps / 128 kbps | National | Euro | 20 | \$21.81 | Free - \$1.00 | Included | No | No | n/a | No | | http://www.telenet.be |
| | Telenet | Entrant | | ComfortNet | Cable | 6 Mbps / 256 kbps | National | Euro | 30.64 | \$33.41 | Free - \$1.00 | Included | No | No | n/a | No | | |
| | Telenet | Entrant | | ExpressNet | Cable | 15 Mbps / 312 kbps | National | Euro | 42.91 | \$46.79 | Free - \$1.00 | Included | No | No | n/a | No | | |
| | Telenet | Entrant | | TurboNet | Cable | 25 Mbps / 1 Mbps | National | Euro | 61.32 | \$66.87 | Free - \$1.00 | Included | No | No | n/a | No | | |
| Bulgaria | BTC Net | Incumbent | 2.8% | BTK ADSL Tempo | DSL | 12 Mbps / 1 Mbps | National | BGN | 2.5 | \$31.85 | 36 none | Included | No | No | 12 Months | No | | http://www.btc.bg/btc/retail/prices.html and http://www.btc.bg/retail/interet |
| | BTC Net | Incumbent | | BTK ADSL Start | DSL | 6 Mbps / 512 kbps | National | BGN | 2.0 | \$25.48 | 36 none | Included | No | No | 12 Months | No | | |
| | BTC Net | Incumbent | | BTK ADSL City | DSL | 10 Mbps / 1 Mbps | Parts of Sofia | BGN | 1.5 | \$19.11 | 36 none | Included | No | No | 12 Months | No | | http://www.cablenet.bg/?p=interet&lang=en |
| Bulgaria | Cable Tel | Entrant | | Cable/FTTH Hybrid | Cable/FTTH Hybrid | 768 kbps down international / 1.5 Mbps (down international) | Haskovo, Silven, Razgrad, Lovech, Turgovishte, Dobrich, Neusebar and Stara Zagora | BGN | 1.5 | \$19.11 | n/a | Included | No | No | n/a | No | | http://www.cablenet.bg/?p=interet&lang=en |
| | Cable Tel | Entrant | | Cable/FTTH Mini | Cable/FTTH Hybrid | 3 Mbps down international / 6 Mbps (down international) | Haskovo, Silven, Razgrad, Lovech, Turgovishte, Dobrich, Neusebar and Stara Zagora | BGN | 1.99 | \$23.55 | n/a | Included | No | No | n/a | No | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Broadband Access Market ¹ | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (down/up/total) | Availability of Broadband Service Offerings (Communities or National Level) | Foreign Currency | Monthly Charge in Local Currency (BGN, EUR, USD, etc.) | Monthly Charge (BGN, EUR, USD, etc.) (Promo/Regular/Paid) | Installation (Connection) Charge | Additional Charges including Late Rental/Leasing Charge | Month(s) Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|----------|----------------------------|--------------------|--|--|--------------------|---|---|------------------|--|---|----------------------------------|---|------------------------|---|----------------------------|-------------------|-------------|--------------------------|
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 4 Mbps down international (8 Mbps down national) | Haskovo, Sliven, Razgrad, Lovech, Plovdiv, Dobrich, Nesebar and Stara Zagora | BGN | 29 | \$36.94 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 5 Mbps down international (10 Mbps down national) | Haskovo, Sliven, Razgrad, Lovech, Targovishte, Dobrich, Nesebar and Stara Zagora | BGN | 39 | \$49.68 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 6 Mbps down international (12 Mbps down national) | Haskovo, Sliven, Plovdiv, Dobrich, Targovishte, Dobrich, Nesebar and Stara Zagora | BGN | 49 | \$62.42 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 8 Mbps down (20 Mbps w/ Peering) | Parts of Sofia | BGN | 199 | \$23.35 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 12 Mbps down (30 Mbps w/ Peering) | Parts of Sofia | BGN | 29 | \$36.94 | n/a | n/a | Included | No | n/a | No | | |
| Bulgaria | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 16 Mbps down (40 Mbps w/ Peering) | Parts of Sofia | BGN | 39 | \$49.68 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 16 Mbps down (50 Mbps w/ Peering) | Parts of Sofia | BGN | 49 | \$62.42 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 256 kbps down | Parts of Sofia and Karafilla | BGN | 15 | \$19.11 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 2 Mbps down | Dimovo grad and Karafilla | BGN | 199 | \$23.35 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 3 Mbps down | Dimovo grad and Karafilla | BGN | 29 | \$36.94 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 4 Mbps down | Dimovo grad and Karafilla | BGN | 39 | \$49.68 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 6 Mbps down | Dimovo grad and Karafilla | BGN | 499 | \$63.57 | n/a | n/a | Included | No | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 1 Mbps down | National | BGN | 199 | \$23.35 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 2 Mbps down | National | BGN | 29 | \$36.94 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 3 Mbps down | National | BGN | 39 | \$49.68 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 4 Mbps down | National | BGN | 499 | \$63.57 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 6 Mbps down | Parts of Sofia | BGN | 199 | \$23.35 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 8 Mbps down | Parts of Sofia | BGN | 29 | \$36.94 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 10 Mbps down | Parts of Sofia | BGN | 39 | \$49.68 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFTTH Hybrid CableFTTH Ultra Express CableFTTH Ultra | CableFTTH Hybrid | 12 Mbps down | Parts of Sofia | BGN | 499 | \$63.57 | n/a | n/a | Included | Add-on to cable | n/a | No | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Comments or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD (PPP Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental, Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|----------|----------------------------|--------------------|--|---|--------------------|---|--|------------------|--------------------------------------|---|----------------------------------|--|----------------------|---|----------------------------|---|-------------|---|
| | Cable Tel | Entrant | | CableFELNET Aina (Shumen, Burgas and Sliven) | Cable/FTTH Hybrid | 2 Mbps down | Shumen, Burgas and Sliven | BGN | 19.9 | \$23.55 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFELNET Bravo (Shumen, Burgas and Sliven) | Cable/FTTH Hybrid | 3 Mbps down | Shumen, Burgas and Sliven | BGN | 2.9 | \$36.94 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFELNET Express (Shumen, Burgas and Sliven) | Cable/FTTH Hybrid | 4 Mbps down | Shumen, Burgas and Sliven | BGN | 3.9 | \$49.68 | n/a | n/a | Included | Add-on to cable | n/a | No | | |
| | Cable Tel | Entrant | | CableFELNET Ultra (Shumen, Burgas and Sliven) | Cable/FTTH Hybrid | 5 Mbps down | Shumen, Burgas and Sliven | BGN | 49.9 | \$63.57 | n/a | n/a | Included | Add-on to cable | n/a | No | | http://skk.bg/mol_newinfo_2_4.html |
| Bulgaria | Eurocom | Entrant | | Intro | Cable | 6 Mbps (1:2 upload/download ratio) | National | Euro | 17.6 | \$22.42 | Free | none | Included | No | 12 Months | No | | |
| | Eurocom | Entrant | | 1-Intro | Cable | 10 Mbps (1:3 upload/download ratio) | National | Euro | 22.4 | \$28.54 | Free | none | Included | No | 12 Months | No | | |
| | Eurocom | Entrant | | Optima | Cable | 15 Mbps (1:3 upload/download ratio) | National | Euro | 28 | \$35.67 | Free | none | Included | No | 12 Months | No | | |
| Bulgaria | Eurocom | Entrant | | Maxima | Cable | 20 Mbps (1:3 upload/download ratio) | National | Euro | 36 | \$45.86 | Free | none | Included | No | 12 Months | No | | |
| | Eurocom | Entrant | | LAN "General" | Cable | 20 Mbps down domestic; 5 Mbps international | Parts of Sofia | Euro | 20 | \$25.48 | Free | none | Included | No | 12 Months | 10.00 for first 6 months | | |
| | Eurocom | Entrant | | LAN "Standard" | Cable | 30 Mbps down domestic; 10 Mbps international | Parts of Sofia | Euro | 30 | \$38.22 | Free | none | Included | No | 12 Months | 15.00 for first 6 months | | |
| | Eurocom | Entrant | | LAN "Ultra" | Cable | 45 Mbps down domestic; 15 Mbps international | Parts of Sofia | Euro | 50 | \$63.69 | Free | none | Included | No | 12 Months | 25.00 for first 6 months; pay for 3 months; get 4 months; get 4 free; Prepay 6; get 6 free. | | http://www.netstabil.bg/mol_content/size_w_1447 |
| Bulgaria | Net ISat | Entrant | | City Connect | FTTH | 25 Mbps down | Parts of Sofia | Euro | 24.9 | \$31.72 | Free | n/a | Purchase for 65.00 | FTTH/VOIP (limited) PTV (limited) | month-month | Pay for 8 months; get 4 free; Prepay 6; get 6 free. | | |
| | Net ISat | Entrant | | City Connect | FTTH | 40 Mbps down | Parts of Sofia | Euro | 29.9 | \$38.09 | Free | n/a | Purchase for 65.00 | FTTH/VOIP (limited) PTV (limited) | month-month | Pay for 8 months; get 4 free; Prepay 6; get 6 free. | | |
| | Powernet | Entrant | | Traffic Mania 19 | FTTH | 10 Mbps (1:4 upload/download ratio) | Parts of Sofia | Euro | 19 | \$24.20 | n/a | n/a | n/a | FTTH/PTV (limited) | month-month | Prepay 5 months and get 6 months; Prepay 8 months and get 12 months; months and get 6 months; Prepay 8 months and get 12 months | | http://www.powernet.bg/home.aspx |
| Bulgaria | Powernet | Entrant | | Traffic Mania 25 | FTTH | 50 Mbps (1:4 upload/download ratio) | Parts of Sofia | Euro | 25 | \$31.85 | n/a | n/a | n/a | FTTH/PTV (limited) | month-month | Prepay 5 months and get 6 months; Prepay 8 months and get 12 months | | |
| | Powernet | Entrant | | Traffic Mania 36 | FTTH | 72 Mbps (1:4 upload/download ratio) | Parts of Sofia, Bama, and Burgas | Euro | 36 | \$45.86 | n/a | n/a | n/a | FTTH/PTV (limited) | month-month | Prepay 5 months and get 6 months; Prepay 8 months and get 12 months | | |
| Bulgaria | Spectrum Net (Pon) | Entrant | | Plus | FTTH | Domestic: (50 Mbps/50 Mbps); International: (50 Mbps/10 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 29.9 | \$38.09 | Free | n/a | n/a | No | n/a | No | | http://www.psn.bg/ |
| | Spectrum Net (Pon) | Entrant | | Plus Double | FTTH | Domestic: (50 Mbps/50 Mbps); International: (50 Mbps/10 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 39.9 | \$50.83 | Free | n/a | n/a | FTTH/PTV | n/a | No | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ⁴ | Broadband Service Offerings Name/Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Coverage of Subnational Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Late Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play/ Triple Play? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|----------------|----------------------------|--------------------|--|--|--------------------|--|---|------------------|--------------------------------------|---|---|---|---|---|----------------------------|---|-------------|---|
| Cyprus | Spectrum Net (Pon) | Entrant | | Plus Triple | FTTH | Domestic: (50Mbps/70 Mbps); International: (50 Mbps/10 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 5.59 | \$7.121 | Free | n/a | n/a | FTTH/PTV/VOIP (limited) | n/a | No | | |
| | Spectrum Net (Pon) | Entrant | | Power | FTTH | Domestic: (70Mbps/70 Mbps); International: (70 Mbps/20 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 3.99 | \$50.83 | Free | n/a | n/a | No | n/a | No | | |
| | Spectrum Net (Pon) | Entrant | | Power Double | FTTH | Domestic: (70Mbps/70 Mbps); International: (70 Mbps/20 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 5.59 | \$7.121 | Free | n/a | n/a | FTTH/PTV | n/a | No | | |
| | Spectrum Net (Pon) | Entrant | | Power Triple | FTTH | Domestic: (70Mbps/70 Mbps); International: (70 Mbps/20 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 5.99 | \$76.31 | Free | n/a | n/a | FTTH/PTV/VOIP (limited) | n/a | No | | |
| | Spectrum Net (Pon) | Entrant | | Premium | FTTH | Domestic: (100 Mbps/100 Mbps); International: (100 Mbps/40 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 5.99 | \$76.31 | Free | n/a | n/a | No | n/a | No | | |
| | Spectrum Net (Pon) | Entrant | | Premium Double | FTTH | Domestic: (100 Mbps/100 Mbps); International: (100 Mbps/40 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 7.59 | \$96.69 | Free | n/a | n/a | FTTH/PTV | n/a | No | | |
| | Spectrum Net (Pon) | Entrant | | Premium Triple | FTTH | Domestic: (100 Mbps/100 Mbps); International: (100 Mbps/40 Mbps) | Parts of Sofia, Bama, and Burgas | Euro | 7.99 | \$101.78 | Free | n/a | n/a | FTTH/PTV/VOIP (limited) | n/a | No | | |
| | Cyranet | Incumbent | 63% | NetRunner Home512 | DSL | Up to 412/192kbps | National | Euro | 26.45 | \$59.30 | Free | 79.59 connection fee | unspecified line rental and ISP | No | month-month | some discounts if you pay for a full year | | http://www.cyranet.com.cy/Services.asp |
| | Cyranet | Incumbent | | NetRunner Home1000 | DSL | 1024/256kbps | National | Euro | 33.36 | \$74.80 | Free | unspecified line rental and ISP | unspecified line rental and ISP | No | month-month | some discounts if you pay for a full year | | |
| | Cyranet | Incumbent | | NetRunner Home2000 | DSL | 2048/384kbps | National | Euro | 43.7 | \$97.98 | Free | 79.59 connection fee | unspecified line rental and ISP | No | month-month | some discounts if you pay for a full year | | |
| Czech Republic | Cyranet | Incumbent | | NetRunner Home4000 | DSL | 4096/384kbps | National | Euro | 38 | \$83.20 | n/a | unspecified line rental and ISP | unspecified line rental and ISP | No | month-month | some discounts if you pay for a full year | | http://www.cyranet.com.cy/Services.asp |
| | Telefonica 02 | Incumbent | 33% | 02 Internet | DSL | 8 Mbps / 512 kbps | National | CZK | 750 | \$50.16 | n/a | Activation: 1.00 | purchase for 990.00 | No | 24 month | No | | |
| | Telefonica 02 | Incumbent | | 02 Internet Plus | DSL | 16 Mbps / 512 kbps | National | CZK | 900 | \$60.20 | n/a | Activation: 1.00 | purchase for 990.00 | No | 24 month | No | | |
| Czech Republic | GTS Novera | Entrant | | 02 Internet Pro | DSL | 16 Mbps / 768 kbps | National | CZK | 1050 | \$70.23 | n/a | Activation: 1.00 | purchase for 990.00 | No | 24 month | No | | |
| | GTS Novera | Entrant | | DSL Fun (aggregation - 1:50) | DSL | 8 Mbps / 512 kbps | National | CZK | 4700.5 | \$31.44 | Scale: 178.50; "small" installation: 1547.00; "large" installation: 2380.00 | Scale: 178.50; "small" installation: 1547.00; "large" installation: 2380.00 | Various moderns available. Basic: 119 w/ 18 ms. Contact: 708.05 w/ 12 ms. Contract: 946.05 w/ no contract | No | month-month | Yes (reg. price unknown) | | http://www.telefonica.com/telecomunicacia/telecomunicacia.html |
| | GTS Novera | Entrant | | DSL Fun (aggregation - 1:20) | DSL | 16 Mbps / 768 kbps | National | CZK | 708.05 | \$47.36 | Scale: 178.50; "small" installation: 1547.00; "large" installation: 2380.00 | Scale: 178.50; "small" installation: 1547.00; "large" installation: 2380.00 | Various moderns available. Basic: 119 w/ 18 ms. Contact: 708.05 w/ 12 ms. Contract: 946.05 w/ no contract | No | month-month | Yes (reg. price unknown) | | |
| GTS Novera | Entrant | | DSL Prof (aggregation - 1:20) | DSL | 8 Mbps / 512 kbps | National | CZK | 1184.05 | \$79.20 | Scale: 178.50; "small" installation: 1547.00; "large" installation: 2380.00 | Scale: 178.50; "small" installation: 1547.00; "large" installation: 2380.00 | Various moderns available. Basic: 119 w/ 18 ms. Contact: 708.05 w/ 12 ms. Contract: 946.05 w/ no contract | No | month-month | Yes (reg. price unknown) | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Connection Fee (Currency) | Monthly Charge (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental / Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|----------------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|---|------------------|-----------------------------------|--|---|---|--|---|----------------------------|--|-------------|---|
| | GTS Novena | Entrant | | DSL Prof (aggregation - 1:20) | DSL | 16 Mbps / 768 kbps | National | CZK | 2017.05 | \$134.91 | Self: 178.50; "small" installation: 1547.00; "large" installation: 2380.00/none | | Various modems available. Basic: 19.00; Premium: 208.05 for 12 mo. Contract; 946.05 w/ no contract | No | month-month | Yes (reg. price unknown) | | http://www.mafkomunikace.cz/dsl |
| Czech Republic | Radfokomunikace | Entrant | | Premium ADSL | DSL | 8192 / 512 kbps | National | CZK | 469 | \$31.37 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | http://www.mafkomunikace.cz/dsl |
| | Radfokomunikace | Entrant | | Premium ADSL | DSL | 2888 / 1024 kbps | National | CZK | 699 | \$46.75 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | |
| | Radfokomunikace | Entrant | | Business 2Line | DSL | 2048 / 512 kbps | National | CZK | 1773 | \$118.59 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | |
| | Radfokomunikace | Entrant | | Business 2Line | DSL | 4096 / 512 kbps | National | CZK | 2011 | \$134.51 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | |
| | Radfokomunikace | Entrant | | Business 2Line | DSL | 6144 / 512 kbps | National | CZK | 2368 | \$188.38 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | |
| | Radfokomunikace | Entrant | | Classic ADSL | DSL | 8192 / 512 kbps | National | CZK | 469 | \$31.37 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | |
| | Radfokomunikace | Entrant | | Classic ADSL | DSL | 16384 / 768 kbps | National | CZK | 699 | \$46.75 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | |
| | Radfokomunikace | Entrant | | Premium Sky | DSL | 512 / 128 kbps | National | CZK | 713 | \$47.69 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | |
| | Radfokomunikace | Entrant | | Premium Sky | DSL | 1024 / 256 kbps | National | CZK | 832 | \$55.65 | Self: free; "small" installation: 1796.90; "large" installation: 2866.90/none | | purchase for 699.00 (basic modem) | No | n/a | No | | |
| Czech Republic | T-Mobile | Entrant | | Internet Standard | DSL | 8192 / 512 kbps | National | CZK | 474.81 | \$31.76 | n/a | n/a | purchase for 299.00 (basic modem) | No | 24 months | No | | http://www.t-mobile.cz/wa |
| | T-Mobile | Entrant | | Internet Premium | DSL | 16384 / 768 kbps | National | CZK | 712.81 | \$47.68 | n/a | n/a | purchase for 299.00 (basic modem) | No | 24 months | No | | http://www.t-mobile.cz/wa |
| | | | | | | | | | 490 | \$32.77 | Installation: 1590.00; Connection fee: 1290.00 | | Deposit: 2000.00 | No | 12 months (unclear) | First 8 months, pay 50% standard price; Installation: 1590.00; Connection: 250.00; Modem - free rental | | http://www.upc.cz/interaktiv |
| Czech Republic | UPC | Entrant | | 10M | Cable | 10 Mbps / 1 Mbps | National | CZK | 850 | \$56.85 | Installation: 1590.00; Connection fee: 1290.00 | | Deposit: 2000.00 | No | 12 months (unclear) | Pay 650.00 after first 6 months; Installation: 1590.00; Connection: 250.00; Modem - free rental | | |
| | UPC | Entrant | | 30M | Cable | 30 Mbps / 1.5 Mbps | National | CZK | | | Installation: 1590.00; Connection fee: 1290.00 | | Deposit: 2000.00 | No | 12 months (unclear) | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ¹ | Broadband Service Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service (Community or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (One-time) Charges | Additional Charge for Rental Leasing Charge | Modern Rental Charge | Broadband Provider Triple Play ² | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|----------------|------------------------------|--------------------|--|-------------------------------|--------------------|-----------------------------------|---|------------------|--------------------------------------|--|--|---|----------------------|---|----------------------------|-------------------|-------------|---|
| Czech Republic | UPC | Entrant | | Easy | Cable | 15 Mbps / 1.5 Mbps | National | CZK | 570 | \$38.12 | Installation: 1500.00; Connection fee: 1200.00 | none | Deposit: 2000.00 | No | 12 months (undefined) | No | | |
| | UPC | Entrant | | Light | Cable | 20 Mbps / 1.5 Mbps | National | CZK | 794 | \$53.11 | 1500.00; Connection fee: 1200.00 | none | Deposit: 2000.00 | No | 12 months (undefined) | No | | |
| | UPC | Entrant | | Classic | Cable | 25 Mbps / 1 Mbps | National | CZK | 1239 | \$82.87 | 1500.00; Connection fee: 1200.00 | none | Deposit: 2000.00 | No | 12 months (undefined) | No | | |
| | UPC | Entrant | | Extreme | Cable | 30 Mbps / 1.5 Mbps | National | CZK | 1693 | \$113.24 | 1500.00; Connection fee: 1200.00 | none | Deposit: 2000.00 | No | 12 months (undefined) | No | | |
| Denmark | UPC | Entrant | | Professional | Cable | 30 Mbps / 1.5 Mbps | National | CZK | 4548 | \$304.19 | 1500.00; Connection fee: 1200.00 | none | Deposit: 2000.00 | No | 12 months (undefined) | No | | |
| | TDC | Incumbent | 58% | (no name) | DSL | 4 Mbps / 128 kbps | National | DKK | 244 | \$27.57 | Self Free | none | n/a | No | 6 month min | No | | http://netcat.dk/elementar.php?domain=55_a_internet.net |
| | TDC | Incumbent | | (no name) | DSL | 10 Mbps / 1 Mbps | National | DKK | 314 | \$35.48 | Self Free | none | n/a | No | 6 month min | No | | |
| | TDC | Incumbent | | (no name) | DSL | 20 Mbps / 1 Mbps | National | DKK | 363 | \$41.02 | Self Free | none | n/a | No | 6 month min | No | | http://www.telecom.dk/privat/vebnet.htm |
| Denmark | Cybercity (Telecom) | Entrant | | Small | DSL | 2 Mbps / 512 kbps | National | DKK | 169 | \$19.10 | n/a | none | n/a | No | n/a | No | | |
| | Cybercity (Telecom) | Entrant | | Medium | DSL | 6 Mbps / 512 kbps | National | DKK | 199 | \$22.49 | n/a | none | n/a | No | n/a | No | | |
| | Cybercity (Telecom) | Entrant | | Large | DSL | 10 Mbps / 1 Mbps | National | DKK | 249 | \$28.14 | n/a | none | n/a | No | n/a | No | | |
| | Cybercity (Telecom) | Entrant | | Extra Large | DSL | 20 Mbps / 1 Mbps | National | DKK | 299 | \$33.79 | n/a | none | n/a | No | n/a | No | | |
| Denmark | Dansk Kabel TV (part of TDC) | Entrant | | Low Speed | Cable | 512 kbps / 256 kbps | National | DKK | 99 | \$11.19 | Self Free; OnSite: 695 | none | n/a | No | n/a | No | | http://www.danmarkkabel.dk/vebnet/g_pnnet/ |
| | Dansk Kabel TV (part of TDC) | Entrant | | | Cable | 3 Mbps / 512 kbps | National | DKK | 169 | \$19.10 | Self Free; OnSite: 695 | none | n/a | No | n/a | No | | |
| | Dansk Kabel TV (part of TDC) | Entrant | | Medium Speed | Cable | 4 Mbps / 256 kbps | National | DKK | 189 | \$21.56 | Self Free; OnSite: 695 | none | n/a | No | n/a | No | | |
| | Dansk Kabel TV (part of TDC) | Entrant | | | Cable | 6 Mbps / 1 Mbps | National | DKK | 209 | \$23.62 | Self Free; OnSite: 695 | none | n/a | No | n/a | No | | |
| Denmark | Dansk Kabel TV (part of TDC) | Entrant | | High Speed | Cable | 10 Mbps / 1 Mbps | National | DKK | 299 | \$33.79 | Self Free; OnSite: 695 | none | n/a | No | n/a | No | | |
| | Dansk Kabel TV (part of TDC) | Entrant | | | Cable | 8 Mbps / 2 Mbps | National | DKK | 349 | \$39.44 | Self Free; OnSite: 695 | none | n/a | No | n/a | No | | |
| | Dansk Kabel TV (part of TDC) | Entrant | | | Cable | 12 Mbps / 2 Mbps | National | DKK | 399 | \$45.09 | Self Free; OnSite: 695 | none | n/a | No | n/a | No | | |
| | Telia-Storea | Entrant | | FlatRate | DSL | 2 Mbps / 384 kbps | National | DKK | 149 | \$16.84 | Self Free; Computer Installation: 499 | none | n/a | No | n/a | No | | |

| Country | Broadband Service Provider | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Minimum or National Level) | Foreign Currency | Monthly Charge in Foreign Currency | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental and Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL | |
|---------|----------------------------|--|--|--------------------|-----------------------------------|---|------------------|------------------------------------|--|---------------------------------------|---|--|---|----------------------------|-------------------|-------------|--------------------------|---|
| Denmark | Telia-Stofa | | | DSL | 4 Mbps / 384 kbps | National | DKK | 199 | \$22.49 | Staff Fee: Computer Installation: 499 | none | n/a | No | No | | | | |
| | Telia-Stofa | | | DSL | 6 Mbps / 384 kbps | National | DKK | 239 | \$27.01 | Staff Fee: Computer Installation: 499 | none | n/a | No | No | | | | |
| | Telia-Stofa | | | DSL | 12 Mbps / 512 kbps | National | DKK | 279 | \$31.53 | Staff Fee: Computer Installation: 499 | none | n/a | No | No | | | | |
| | Telia-Stofa | | | DSL | 25 Mbps / 1 Mbps | National | DKK | 299 | \$33.79 | Staff Fee: Computer Installation: 499 | none | n/a | No | No | | | | |
| | Telia-Stofa | | | DSL | 50 Mbps / 2 Mbps | National | DKK | 399 | \$45.99 | Staff Fee: Computer Installation: 499 | none | n/a | No | No | | | | |
| | Telia-Stofa | | | DSL | 4 Mbps / 384 kbps | National | DKK | 300 | \$33.90 | Staff Fee: Computer Installation: 499 | none | n/a | n/a | No | No | | | |
| | Ethon | 53% | Start | | DSL | 1 Mbps / 1 Mbps | National | EEK | 259 | \$26.83 | n/a | n/a | n/a | No | No | | | http://www.ethon.com/servlet/ethon.portal.action?affiliat=5544&code=25 |
| | Ethon | | Incumbent | Koehlabendis | DSL | 4 Mbps / 1 Mbps | National | EEK | 401 | \$41.53 | n/a | n/a | n/a | No | No | | | |
| | Ethon | | Incumbent | Koehlabendis | DSL | 12 Mbps / 1 Mbps | National | EEK | 462 | \$47.85 | n/a | n/a | n/a | No | No | | | |
| | Estonia | | Entrant | Home Internet | Cable | 2 Mbps / 250 kbps | National | EEK | 299 | \$30.97 | router installation: 180 | network subscription fee: 5000, non-network subscription fee: 5000, non- | n/a | No | No | | | www.starmax.ee/taasused/taasused/ |
| Estonia | Starman | | Mini Internet | Cable | 500 kbps / 100 kbps | National | EEK | 199 | \$20.61 | router installation: 180 | network subscription fee: 5000, non- | n/a | No | No | | | | |
| | STV | | STV Mikro | Cable | 256 kbps / 64 kbps | Tallinn | EEK | 141 | \$14.60 | n/a | n/a | Purchase: 599/month (new), 299/month (used) | No | No | | | | http://stv.ee/taasused/taasused/ |
| | STV | | STV Mini | Cable | 2 Mbps / 256 kbps | Tallinn | EEK | 191 | \$19.78 | n/a | n/a | Purchase: 599/month (new), 299/month (used) | No | No | | | | |
| | STV | | STV Kodu | Cable | 3 Mbps / 256 kbps | Tallinn | EEK | 241 | \$24.96 | n/a | n/a | Purchase: 599/month (new), 299/month (used) | No | No | | | | |
| | STV | | STV Kodu X* | Cable | 4 Mbps / 512 kbps | Tallinn | EEK | 291 | \$30.14 | n/a | n/a | Purchase: 599/month (new), 299/month (used) | No | No | | | | |
| | STV | | STV Kodu + | Cable | 5 Mbps / 512 kbps | Tallinn | EEK | 341 | \$35.32 | n/a | n/a | Purchase: 599/month (new), 299/month (used) | No | No | | | | |
| | STV | | STV Pro | Cable | 6 Mbps / 512 kbps | Tallinn | EEK | 391 | \$40.50 | n/a | n/a | Purchase: 599/month (new), 299/month (used) | No | No | | | | |
| | STV | | Saarm Mini | FTTH | 1 Mbps / 1 Mbps | Tallinn | EEK | 149 | \$15.43 | n/a | n/a | n/a | n/a | No | No | | | |
| | STV | | Saarm Neo | FTTH | 5 Mbps / 5 Mbps | Tallinn | EEK | 199 | \$20.61 | n/a | n/a | n/a | n/a | No | No | | | |
| | STV | | Saarm Kodu | FTTH | 10 Mbps / 10 Mbps | Tallinn | EEK | 299 | \$30.97 | n/a | n/a | n/a | n/a | No | No | | | |
| Finland | Elisa | 34.0%** | Elisa broadband | Cable | 600 kbps/500 kbps | Joussuu, Jyväskylä, Lahessa, Riihimäki, Uusimaa | Euro | 179 | \$16.93 | n/a | n/a | n/a | No | No | | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Number of Counties or National Terrestrial) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD (PPP Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental and Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL | | |
|---------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|--|------------------|--------------------------------------|---|----------------------------------|---|----------------------|---|----------------------------|-------------------|-------------|--------------------------|---|--|
| Finland | Elisa | Incumbent | | Elisa broadband | Cable | 1.2 Mbps/600 Kbps | Joensuu, Jyväskylä, Lohjassa, Riihimäki, Uusimaa | Euro | 21.9 | \$20.72 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa broadband | Cable | 3 Mbps/600 kbps | Joensuu, Jyväskylä, Lohjassa, Riihimäki, Uusimaa | Euro | 27.9 | \$26.40 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa broadband (no new sales) | Cable | 5 Mbps/700 kbps | Joensuu, Jyväskylä, Lohjassa, Riihimäki, Uusimaa | Euro | 34.9 | \$33.02 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa broadband | Cable | 10 Mbps/1 Mbps | Joensuu, Jyväskylä, Lohjassa, Riihimäki, Uusimaa | Euro | 34.9 | \$33.02 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa broadband | Cable | 30 Mbps/1 Mbps | Joensuu, Jyväskylä, Lohjassa, Riihimäki, Uusimaa | Euro | 39.9 | \$37.75 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | FTTH | 1 Mbps/1 Mbps | | Euro | 21.9 | \$20.72 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | FTTH | 5 Mbps/ 5 Mbps | | Euro | 24.9 | \$23.56 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | FTTH | 10 Mbps/10 Mbps | | Euro | 32.9 | \$31.13 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | FTTH | 50 Mbps/ 10 Mbps | | Euro | 37.9 | \$35.86 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | FTTH | 100 Mbps/100 Mbps | | Euro | 42.9 | \$40.59 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | Cable | 1 Mbps/1 Mbps | | Euro | 21.9 | \$20.72 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | Cable | 5 Mbps/1 Mbps | | Euro | 24.9 | \$23.56 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | Cable | 10 Mbps/1 Mbps | | Euro | 32.9 | \$31.13 | .40 | | | | | | | | | |
| | Elisa | Incumbent | | Elisa Super | Cable | 24 Mbps/1 Mbps | | Euro | 37.9 | \$35.86 | .40 | | | | | | | | | |
| Finland | Sonera | Incumbent | 29.0%** | Extn Normal | ADSL | 1 Mbps/1 Mbps | Availability and prices vary by locality | Euro | 22.9 | \$21.67 | | | | | | | | | | |
| | Sonera | Incumbent | | Extn Normal | ADSL | 10 Mbps/1 Mbps | Availability and prices vary by locality | Euro | 32.9 | \$31.13 | | | | | | | | | | |
| | Sonera | Incumbent | | Extn Normal | ADSL | 24 Mbps/2 Mbps | Availability and prices vary by locality | Euro | 42.9 | \$40.59 | | | | | | | | | | |
| | Sonera | Incumbent | | Extn C | FTTH | 2 Mbps/ 1 Mbps | Heikinki, Espoo, Porvoo, Hyvinkää, Vantaa, Kerava, Järvenpää, Tuusula | Euro | 30.9 | \$29.23 | | | | | | | | | | |
| | Sonera | Incumbent | | Extn C | FTTH | 10 Mbps | Heikinki, Espoo, Porvoo, Hyvinkää, Vantaa, Kerava, Järvenpää, Tuusula | Euro | 40.9 | \$38.69 | | | | | | | | | | |
| | Sonera | Incumbent | | Extn C | FTTH | 100 Mbps | Heikinki, Espoo, Porvoo, Hyvinkää, Vantaa, Kerava, Järvenpää, Tuusula | Euro | 49.9 | \$47.21 | | | | | | | | | | |
| | Sonera | Incumbent | | Extn C | FTTH | 100 Mbps | Heikinki, Espoo, Porvoo, Hyvinkää, Vantaa, Kerava, Järvenpää, Tuusula | Euro | 49.9 | \$47.21 | | | | | | | | | | |
| | DNA Group | Entrant | 16% | DNA Broadband Cable | Cable | 110 Mbps | Availability and prices vary by locality | Euro | 49.9 | \$47.21 | | | | | | | | | http://www.dna.fi/KYKITYS/LEI/0_AJAKASTA/Sivut/DnaBranng | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market | Broadband Service Offerings Name/Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge in Foreign Currency | Monthly Charge in USD PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental/Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play Triple Play ? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|---------|---|--------------------|---|--|----------------------|-----------------------------------|---|------------------|------------------------------------|---|----------------------------------|---|---------------------|---|------------------------------------|--|-----------------|---|
| | New World Telecommunications Limited | | | | Ethernet (VDSL) | 3 Mbps | National | HK\$ | 188 | \$26.50 | Self Fee; On-Site: \$30 | | | | 6 months | | | http://www.newworld.com.hk/newworld/plan/plan.asp?planid=1&planname=NEW%20WORLD%20VDSL%203Mbps%20Service |
| | New World Telecommunications Limited | | | | Ethernet (VDSL) | 6 Mbps | National | HK\$ | 218 | \$30.73 | Self Fee; On-Site: \$30 | | | | 6 months | | | http://www.newworld.com.hk/newworld/plan/plan.asp?planid=2&planname=NEW%20WORLD%20VDSL%206Mbps%20Service |
| | United and Hong Kong Telecommunications (HKCT) Limited | | | 100M Fiber Broadband Service Plan | Fiber | Up to 100M/Up to 100M | National | HK\$ | 2188 | \$308.43 | | | | | 24 months | Waive \$30 in fee | Unlimited Usage | http://www.artsy.com/plan/plan.asp?planid=1&planname=100M%20Fiber%20Broadband%20Service |
| | United and Hong Kong Telecommunications (HKCT) Limited | | | 100M Fiber Broadband Service Plan | Fiber | Up to 100M/Up to 100M | National | HK\$ | 588 | \$82.89 | | | | | 24 months | Waive \$30 in fee waived 24 months and | Unlimited Usage | http://www.artsy.com/plan/plan.asp?planid=2&planname=100M%20Fiber%20Broadband%20Service |
| | United and Hong Kong Telecommunications (HKCT) Limited | | | 30M Fiber Broadband Service Plan | Fiber | Up to 20M/Up to 18M | National | HK\$ | 256 | \$36.69 | | | | | 18 months | | Unlimited Usage | http://www.artsy.com/plan/plan.asp?planid=3&planname=30M%20Fiber%20Broadband%20Service |
| | United and Hong Kong Telecommunications (HKCT) Limited | | | Service Plan (with indoor and outdoor wireless solution) | Fiber | Up to 18M | National | HK\$ | 266 | \$37.50 | | | | | (Navigator) and indoor and outdoor | | Unlimited Usage | http://www.artsy.com/plan/plan.asp?planid=4&planname=Service%20Plan%20with%20indoor%20and%20outdoor%20wireless%20solution |
| | United and Hong Kong Telecommunications (HKCT) Limited | | | 8M Single Use Plan | Fiber | Up to 8M | National | HK\$ | 398 | \$56.10 | | | | | | | 200 Hours | http://www.artsy.com/plan/plan.asp?planid=5&planname=8M%20Single%20Use%20Plan |
| | Hong Kong Cable Television Limited (-Cable Broadband Service) | | | | Hybrid Fiber Coaxial | Not identified on website | National | HK\$ | 248 | \$34.96 | 4.50 | Activation Fee: Free Free Contract Fee: 15600 | 4.4 | No | 12 months | | | http://www.cable.com.hk/plan/plan.asp?planid=1&planname=8M%20Single%20Use%20Plan |
| Hungary | T-Home | Incumbent | 43% | DSL Easy | DSL | 24 Mbps down | National | EUR | 14.9 | \$2.10 | On-Site: 49.90 | Activation Fee: Free Free Contract Fee: 15600 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.t-home.com/plan/plan.asp?planid=1&planname=DSL%20Easy |
| Hungary | T-Home | Incumbent | | DSL Happy | DSL | 2 Mbps / 192 kbps | National | HUF | 38.50 | \$26.87 | Optional, price unknown | Activation Fee: Free Contract Fee: 37500 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.t-home.com/plan/plan.asp?planid=2&planname=DSL%20Happy |
| Hungary | T-Home | Incumbent | | DSL Medium | DSL | 8 Mbps / 512 kbps | National | HUF | 61.50 | \$42.91 | Optional, price unknown | Activation Fee: Free Contract Fee: 37500 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.t-home.com/plan/plan.asp?planid=3&planname=DSL%20Medium |
| Hungary | T-Home | Incumbent | | DSL Extra | DSL | 25 Mbps / 5 Mbps | National | HUF | 82.50 | \$57.57 | Optional, price unknown | Activation Fee: Free Contract Fee: 37500 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.t-home.com/plan/plan.asp?planid=4&planname=DSL%20Extra |
| Hungary | T-Home | Incumbent | | Kabelnet Easy | Cable | 2 Mbps / 25.6 kbps | National | HUF | 28.50 | \$19.89 | Optional, price unknown | Activation Fee: Free Contract Fee: 15600 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.kabelnet.com/plan/plan.asp?planid=1&planname=Kabelnet%20Easy |
| Hungary | T-Home | Incumbent | | Kabelnet Happy | Cable | 2 Mbps / 25.6 kbps | National | HUF | 38.50 | \$26.87 | Optional, price unknown | Activation Fee: Free Contract Fee: 37500 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.kabelnet.com/plan/plan.asp?planid=2&planname=Kabelnet%20Happy |
| Hungary | T-Home | Incumbent | | Kabelnet Medium | Cable | 8 Mbps / 1 Mbps | National | HUF | 61.50 | \$42.91 | Optional, price unknown | Activation Fee: Free Contract Fee: 37500 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.kabelnet.com/plan/plan.asp?planid=3&planname=Kabelnet%20Medium |
| Hungary | T-Home | Incumbent | | Kabelnet Extra | Cable | 25 Mbps / 5 Mbps | National | HUF | 82.50 | \$57.57 | Optional, price unknown | Activation Fee: Free Contract Fee: 37500 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.kabelnet.com/plan/plan.asp?planid=4&planname=Kabelnet%20Extra |
| Hungary | T-Home | Incumbent | | Optinet Easy | FTTH | 5 Mbps / 2.5 Mbps | Regional and several other cities | HUF | 28.00 | \$18.54 | Optional, price unknown | Activation Fee: Free Contract Fee: 15600 | Free with contract | DSL-VOD/PPTV | 12 Months | No | | http://www.optinet.com/plan/plan.asp?planid=1&planname=Optinet%20Easy |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Continuity of National Service) | Foreign Currency | Monthly Charge (in Foreign Currency) | Months Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental and Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play/ Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|---------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|--|------------------|--------------------------------------|---|----------------------------------|---|----------------------|--|----------------------------|-------------------|-------------|---|
| | T-Home | Incumbent | | Optinet Happy | FTTH | 5 Mbps / 2.5 Mbps | Budapest and several other cities | HUF | 38.50 | \$26.87 | Optional, price unknown | Activation Fee: Free Contract Fee: 27500 | Free with contract | DSL-VOD/PTV | 12 Months | No | | |
| | T-Home | Incumbent | | Optinet Medium | FTTH | 15 Mbps / 7.5 Mbps | Budapest and several other cities | HUF | 61.50 | \$42.91 | Optional, price unknown | Activation Fee: Free Contract Fee: 27500 | Free with contract | DSL-VOD/PTV | 12 Months | No | | |
| | T-Home | Incumbent | | Optinet Extra | FTTH | 25 Mbps / 12.5 Mbps | Budapest and several other cities | HUF | 82.50 | \$57.57 | Optional, price unknown | Activation Fee: Free Contract Fee: 27500 | Free with contract | DSL-VOD/PTV | 12 Months | No | | |
| | T-Home | Incumbent | | Optinet Super | FTTH | 50 Mbps / 25 Mbps | Budapest and several other cities | HUF | 118.50 | \$82.69 | Optional, price unknown | Activation Fee: Free Contract Fee: 27500 | Free with contract | DSL-VOD/PTV | 12 Months | No | | http://www.optinet.hu/old/optinet/ |
| | EnterNet | Entrant | | Private prepaid eomang | DSL | 1280 / 128 kbps | n/a | HUF | 23.90 | \$16.68 | n/a | none | n/a | No | 12 Months | No | | |
| | EnterNet | Entrant | | Private eomang | DSL | 1280 / 128 kbps | n/a | HUF | 29.90 | \$20.86 | n/a | none | n/a | No | 12 Months | No | | |
| | EnterNet | Entrant | | Tempo prepaid eomang | DSL | 2560 / 192 kbps | n/a | HUF | 25.90 | \$18.07 | n/a | none | n/a | No | 12 Months | No | | |
| | EnterNet | Entrant | | Tempo eomang | DSL | 2560 / 192 kbps | n/a | HUF | 34.90 | \$24.35 | n/a | none | n/a | No | 12 Months | No | | |
| | EnterNet | Entrant | | Hobbi eomang | DSL | 4480 / 256 kbps | n/a | HUF | 39.90 | \$27.84 | n/a | none | n/a | No | 12 Months | No | | |
| | EnterNet | Entrant | | Komfort eomang | DSL | 8096 / 512 kbps | n/a | HUF | 49.90 | \$34.82 | n/a | none | n/a | No | 12 Months | No | | |
| | EnterNet | Entrant | | Extra eomang | DSL | 16432 / 1024 kbps | n/a | HUF | 69.90 | \$48.78 | n/a | none | n/a | No | 12 Months | No | | |
| | EnterNet | Entrant | | Home Prepaid Alpha | DSL | 1280 / 128 kbps | National | HUF | 25.50 | \$17.79 | n/a | n/a | One time: 7150 | No | 12 Months | No | | http://www.enternet.hu/old/enternet/ |
| | EnterNet | Entrant | | Home Prepaid Tango | DSL | 2560 / 192 kbps | National | HUF | 35.50 | \$24.77 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | EnterNet | Entrant | | Home Prepaid Bravo | DSL | 4480 / 256 kbps | National | HUF | 59.40 | \$41.45 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| Hungary | EnterNet | Entrant | | Home Prepaid Charlie | DSL | 8096 / 512 kbps | National | HUF | 95.50 | \$66.64 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | EnterNet | Entrant | | Home Alpha | DSL | 1280 / 128 kbps | National | HUF | 30.90 | \$21.28 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | EnterNet | Entrant | | Home Tango | DSL | 2560 / 192 kbps | National | HUF | 37.40 | \$26.10 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | EnterNet | Entrant | | Home Bravo | DSL | 4480 / 256 kbps | National | HUF | 61.40 | \$42.84 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | EnterNet | Entrant | | Home Bravo | DSL | 8096 / 512 kbps | National | HUF | 80.60 | \$56.24 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | EnterNet | Entrant | | Home VDSL | DSL | 25000 / 4096 kbps | National | HUF | 99.90 | \$69.71 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | EnterNet | Entrant | | AVP Prepaid Xpress | DSL | 1072 / 384 kbps | National | HUF | 48.75 | \$34.02 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Domestic or National Level) | Foreign Currency | Monthly Charge in Foreign Currency | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental and Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play/ Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|---------|----------------------------|--------------------|--|--|--------------------|--|--|------------------|------------------------------------|--|----------------------------------|---|-----------------------------------|--|----------------------------|------------------------------------|-------------|---|
| | Externet | Entrant | | Bravo Prepaid Xpress | DSL | 5120 / 512 kbps | National | HUF | 59/69 | \$41.65 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | Externet | Entrant | | Prepaid Express Charlie | DSL | 10240 / 1024 kbps | National | HUF | 84/4 | \$61.71 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | Externet | Entrant | | Alpha Xpress | DSL | 3072 / 384 kbps | National | HUF | 51/98 | \$36.27 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | Externet | Entrant | | Xpress Bravo | DSL | 5120 / 512 kbps | National | HUF | 62/19 | \$41.40 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | Externet | Entrant | | Xpress Charlie | DSL | 10240 / 1024 kbps | National | HUF | 93/44 | \$65.20 | n/a | n/a | One time: 7150 | No | 12 Months | No | | |
| | Invitel | Entrant | | Rajj package | DSL | 8096 / 512 kbps | National | HUF | 2990 | \$20.86 | Free | Service Fee: 2100 | n/a | No | 12 Months | No | | http://csdshimond.hu/MainPage.asp |
| | Invitel | Entrant | | Tempo package | DSL | 8096 / 512 kbps | National | HUF | 4990 | \$34.82 | Free | Service Fee: 2100 | n/a | No | 12 Months | No | | |
| | Invitel | Entrant | | Turbo package | DSL | 8096 / 512 kbps | National | HUF | 7990 | \$55.75 | Free | Service Fee: 2100 | n/a | No | 12 Months | No | | |
| | Invitel | Entrant | | ADSL 1M 1GB | DSL | 1280 / 128 kbps | National | HUF | 3290 | \$22.96 | Free | Service Fee: 2100 | n/a | No | 12 Months | 1645 for first 6 months | | |
| | Invitel | Entrant | | ADSL 1M | DSL | 1280 / 128 kbps | National | HUF | 4290 | \$29.94 | Free | Service Fee: 2100 | n/a | No | 12 Months | 2145 for first 6 months | | |
| | Invitel | Entrant | | ADSL 4M | DSL | 4480 / 256 kbps | National | HUF | 7290 | \$50.87 | Free | Service Fee: 2100 | n/a | No | 12 Months | 3645 for first 6 months | | http://www.upc.hu/telep_ar/internet |
| | UPC | Entrant | | Start | Cable | 1 Mbps / 512 kbps | National | HUF | 25/60 | \$17.44 | Self. Fee: On-Site: n/a | n/a | n/a | No | n/a | No | | |
| | UPC | Entrant | | Bronze | Cable | 4 Mbps / 1 Mbps | National | HUF | 47/60 | \$32.80 | Self. Fee: On-Site: n/a | n/a | n/a | No | n/a | No | | |
| | UPC | Entrant | | Silver | Cable | 15 Mbps / 2 Mbps | National | HUF | 73/60 | \$50.94 | Self. Fee: On-Site: n/a | n/a | n/a | No | n/a | No | | |
| | UPC | Entrant | | Gold | Cable | 25 Mbps / 3 Mbps | National | HUF | 93/60 | \$64.90 | Self. Fee: On-Site: n/a | n/a | n/a | No | n/a | No | | |
| Iceland | Siminn | Incumbent | | Good | DSL | 1 Mbps down | National | ISK | 41/90 | \$37.42 | n/a | n/a | n/a | No | n/a | No | | http://www.siminn.is/afresidatalur.html |
| | Siminn | Incumbent | | Better | DSL | 2 Mbps down | National | ISK | 51/90 | \$46.36 | n/a | n/a | n/a | No | n/a | No | | |
| | Siminn | Incumbent | | Best | DSL | up to 8 Mbps down | National | ISK | 61/90 | \$55.29 | n/a | n/a | n/a | No | n/a | No | | |
| | Siminn | Incumbent | | Unpassable | DSL | up to 12 Mbps down | National | ISK | 66/90 | \$59.75 | n/a | n/a | n/a | No | n/a | No | | |
| | DC Vodafone | Entrant | 15% | The Nice Connection | DSL/FTTH | Mbps down: if DSL connection: up to 12 Mbps down; if DSL connection: up to 12 Mbps | National | ISK | 41/90 | \$37.42 | 62/63 none | 62/63 none | Rent: 350/ month; Purchase: 12900 | No | month-month | installation w/ 6 month commitment | | http://www.vodafone.is/afresidatalur.html |
| | DC Vodafone | Entrant | | The Hip Connection | DSL/FTTH | Mbps | National | ISK | 51/90 | \$46.36 | 62/63 none | 62/63 none | Rent: 350/ month; Purchase: 12900 | No | month-month | installation w/ 6 month commitment | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge to Foreign Currency | Months Charge to (USD, PPP) (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges Including Line Rental, Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL | |
|---------|----------------------------|--------------------|--|--|--------------------|---|---|------------------|------------------------------------|---|----------------------------------|--|---------------------|---|----------------------------|------------------------------------|-------------|---|---|
| Ireland | OG Vodafone | Entrant | | The Super Connection (DSL/FTH) | DSL/FTH | Mbps down: 12 Mbps connection; up to 12 Mbps connection | National | ISK | 61.90 | \$52.29 | 62.03 none | Rent: 35.0 / month; Purchase: 129.0 | No | | month-month | installation w/ 6 month commitment | | | |
| | OG Vodafone | Entrant | | The Hip Connection (no fixed line) | DSL/FTH | Mbps down: 12 Mbps connection; up to 12 Mbps connection | National | ISK | 51.90 | \$46.36 | 62.03 none | Rent: 35.0 / month; Purchase: 129.0 | No | | month-month | | | | |
| | OG Vodafone | Entrant | | The Super Connection (no fixed line) | DSL/FTH | Mbps down: 12 Mbps connection; up to 12 Mbps connection | National | ISK | 61.90 | \$52.29 | 62.03 none | Rent: 35.0 / month; Purchase: 129.0 | No | | month-month | | | http://www.vodafone.ie | |
| Ireland | Eircom | Incumbent | 51% | Stand Alone Broadband | DSL | Up to 1 Mbps / 128 kbps | National | Euro | 25.09 | \$23.36 | line rental fee: unspecified | Free | No | | 3 Months | First month free | | http://www.eircom.ie | |
| | Eircom | Incumbent | | 1 MB Broadband | DSL | 1000/128 kbps | National | Euro | 25.09 | \$23.36 | Connection: Free | Free | No | | 3 Months | First month free | | http://www.eircom.ie | |
| | Eircom | Incumbent | | 3 Mb Broadband | DSL | 3000/128 kbps | National | Euro | 30.11 | \$28.04 | Connection: Free | Free | No | | 3 Months | First month free | | http://www.eircom.ie | |
| | Eircom | Incumbent | | 1 MB with Eircom internet bundle | DSL | 1000/128 kbps | National | Euro | 50.15 | \$46.69 | Connection: Free | Free | No | | 12 months | | | http://www.eircom.ie | |
| | Ireland | BT Ireland | Entrant | 9% | Option 1 | DSL | Up to 24 Mbps in urban areas; up to 1 Mbps for all others | National | Euro | 22.59 | \$21.03 | Connection: Free | Free | No | | 12 Months | No | | http://www.btireland.ie |
| | | BT Ireland | Entrant | | Option 2 | DSL | Up to 24 Mbps in urban areas; up to 3 Mbps for all others | National | Euro | 32.63 | \$30.38 | Connection: Free | Free | No | | 12 Months | No | | http://www.btireland.ie |
| | | BT Ireland | Entrant | | Option 3 | DSL | Up to 24 Mbps in urban areas; up to 7.6 Mbps for all others | National | Euro | 42.67 | \$39.73 | Connection: Free | Free | No | | 12 Months | No | | http://www.btireland.ie |
| | Ireland | Digweb | Entrant | 3% | DSL | DSL | 3 Mbps / 384 kbps | National | Euro | 29.95 | \$27.89 | Activation: Free | Free | No | | 12 Months | No | | http://www.digweb.ie |
| | | Digweb | Entrant | | DSL Xtra | DSL | 7.6 Mbps / 672 kbps | National | Euro | 39.95 | \$37.20 | Activation: Free | Free | No | | 12 Months | No | | http://www.digweb.ie |
| | | Digweb | Entrant | | DSL Pro | DSL | 10 Mbps / 832 kbps | National | Euro | 89.95 | \$83.75 | Activation: Free | Free | No | | 12 Months | No | | http://www.digweb.ie |
| | Ireland | Irish Broadband | Entrant | | Repower 1Mb | Plug & Play | 1 Mbps / 256 kbps | National | Euro | 19.03 | \$17.72 | Activation: 37.66 iua | Free | No | | 12 Months | No | | http://www.irishbroadband.ie |
| | | Irish Broadband | Entrant | | Repower 2Mb | Plug & Play | 2 Mbps / 256 kbps | National | Euro | 27.06 | \$25.20 | Activation: 37.66 iua | Free | No | | 12 Months | No | | http://www.irishbroadband.ie |
| Ireland | Irish Broadband | Entrant | | Go! | Plug & Play | 512 kbps / 128 kbps | National | Euro | 19.03 | \$17.72 | Activation: 37.66 iua | Free | No | | 12 Months | No | | http://www.irishbroadband.ie | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ¹ | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Committee or National Level) | Foreign Currency | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Monthly Rental Charge | Modern Rental Charge | Broadband Included as part of Double Play ² | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL | | | | |
|---------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|---|------------------|--|-------------------------------------|---|----------------------|--|----------------------------|----------------------------------|----------------------------------|--|---|--|---|--|
| Ireland | Irish Broadband | Entrant | | GoV Plus | Plug & Play | 1 Mbps / 256 kbps | National | Euro | \$25.20 | n/a | Activation: 37.65 | One-Time: 99 | No | 12 Months | No | | | | | | |
| | | | | Imagine up to 1 Mb | DSL | 1 Mbps / 128 kbps | National | Euro | \$14.02 | none | Activation: Free | One-Time: 99.41 | No | 12 Months | No | | | | | | |
| | | | | Imagine up to 3 Mb | DSL | 3 Mbps / 256 kbps | National | Euro | \$23.37 | none | Activation: Free | One-Time: 99.41 | No | 12 Months | No | | | | | | |
| | | | | Imagine up to 7.6 Mb | DSL | 7.6 Mbps / 384 kbps | National | Euro | \$32.72 | none | Activation: Free | One-Time: 99.41 | No | 12 Months | No | | | | | | |
| | | | | Broadband Basic | Cable | 1 Mbps / 128 kbps | National | Euro | \$22.35 | Connection: Free; Installation: n/a | none | Activation: Free | One-Time: 99.99 | Cablephone | | 12 Months | Half price for first 3 months | | | http://www.iris.ie | |
| | | | | Broadband Value | Cable | 3 Mbps / 256 kbps | National | Euro | \$20.48 | Connection: Free; Installation: n/a | none | Activation: Free | One-Time: 99.99 | No | 12 Months | Half price for first 3 months | | | | | |
| | | | | Broadband Express | Cable | 10 Mbps / 1 Mbps | National | Euro | \$29.80 | Connection: Free; Installation: n/a | none | Activation: Free | One-Time: 99.99 | No | 12 Months | Half price for first 3 months | | | | | |
| | | | | Broadband Ultra | Cable | 20 Mbps / 1.5 Mbps | National | Euro | \$39.11 | Connection: Free; Installation: n/a | none | Activation: Free | One-Time: 99.99 | No | 12 Months | Half price for first 3 months | | | | | |
| Italy | Telecom Italia | Incumbent | 6% | Alice | ADSL/ADSL2+ | 7Mbps/3.84Kbps | National | Euro | \$22.27 | 15.48 | none | free | | | Free installation by 2009 Oct 31 | | http://umobile.gad.it alice@alice.com http://www.alice.com | | | | |
| | | | | Alice | ADSL/ADSL2+ | 20Mbps/1Mbps | National | Euro | \$27.85 | 15.48 | none | free | | | | Free installation by 2009 Oct 31 | | | | | |
| | | | | Night & Weekend | ADSL | 640Kbps/256Kbps | National | Euro | \$11.10 | 15.48 | none | free | | | | | Free installation by 2009 Oct 31 | | | | |
| | | | | Naviga Casa | DSL | 20 Mbps / 1 Mbps | Certain areas (unlabeled) | Euro | \$44.53 | Free | n/a | Free | | | DSL-VoIP | n/a | 1608 Unit Jan 2010 | | | http://www.telecomitalia.com | |
| | | | | Libero | DSL | 10 Mbps / 10 Mbps | All other areas | Euro | \$44.53 | Free | n/a | Free | | | DSL-VoIP | n/a | 1608 Unit Jan 2010 | | | http://www.libero.it | |
| | | | | Libero | DSL | 1.2 Mbps / 256 kbps | National | Euro | \$11.10 | Free | n/a | Free | Activation: Free 3 / month | | | No | n/a | | | http://www.libero.it | |
| | | | | Libero | DSL | 7 Mbps / 512 kbps | National | Euro | \$22.27 | n/a | Activation: Free 3 / month | free | | | | No | n/a | | | | |
| | | | | Libero | DSL | 20 Mbps / 1 Mbps | National | Euro | \$27.85 | n/a | Activation: Free 3 / month | free | | | | No | n/a | | | | |
| Italy | Tiscali | Entrant | | ADSL 8 Mega | DSL | 8 Mbps / 512 kbps | National | Euro | \$22.27 | n/a | Activation: Free | n/a | No | n/a | First two months free | | | http://www.tiscali.it | | | |
| | | | | ADSL 20 Mega | DSL | 20 Mbps / 1 Mbps | National | Euro | \$27.85 | n/a | Activation: Free | n/a | No | n/a | First two months free | | | | | | |
| | | | | ADSL 20 Mega | DSL | 20 Mbps / 1 Mbps | National | Euro | \$27.85 | n/a | Activation: Free | n/a | No | n/a | First two months free | | | | | | |
| | | | | MORE III | DSL | 47 Mbps / 5 Mbps | n/a | JPY | \$39.47 | 4725+12109 (sat) or 14700 (on-site) | 840; Telephone exchange setup; 1050; ADSL | 514.5 / month | No | n/a | No | n/a | First two months 9.95 | | | http://www.more.com | |
| Japan | NTT East Japan | Incumbent | | MORE II | DSL | 40 Mbps / 4 Mbps | n/a | JPY | \$197.5 | 4725+12109 (sat) or 14700 (on-site) | 840; Telephone exchange setup; 1050; ADSL | 514.5 / month | No | n/a | No | | | http://www.ntt-east.jp | | | |
| | | | | MORE | DSL | 12 Mbps / 1 Mbps | n/a | JPY | \$37.91 | 4725+12109 (sat) or 14700 (on-site) | 840; Telephone exchange setup; 1050; ADSL | 514.5 / month | No | n/a | No | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ¹ | Broadband Service Offering Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service (Communitarian or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Commitment) Charge | Additional Charges Including Rental Leasing Charge | Modern Rental Charge | Broadband Provided as part of Double Play or Triple Play? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL | |
|----------------------------|----------------------------|----------------------------|--|---|--------------------------------|-----------------------------------|---|--------------------------------|--------------------------------------|--|--|--|--|---|----------------------------|-------------------|-------------|---|---|
| Japan | NTT East Japan | Incumbent | | 8 Mbps Type | DSL | 8 Mbps / 1 Mbps | n/a | JPY | 4987.5 | \$3713 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945 | 462 / month | No | n/a | No | | | |
| | | | | | | | | | | | | | | | | | | | |
| | NTT East Japan | Incumbent | | 1.5 Mbps Type | DSL | 1.5 Mbps / 512 kbps | n/a | JPY | 4777.5 | \$3556 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945 | 462 / month | No | n/a | No | | | |
| | | | | | | | | | | | | | | | | | | | |
| | NTT East Japan | Incumbent | | Entry | DSL | 1 Mbps / 512 kbps | n/a | JPY | 3097.5 | \$2306 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; Optical network unit setup: 945 | 462 / month | No | n/a | No | | | |
| | | | | | | | | | | | | | | | | | | | |
| | NTT East Japan | Incumbent | | B FLET | FTTH | Up to 100 Mbps down | Certain areas (unknown) | JPY | 6300 | \$4689 | Free | Contract Fee: 840; Telephone exchange setup: 1050; Optical network unit setup: 945 | Basic: 300 / month; ADSL: 400 / month; free, on-site: 4100. | First two months free | 12 months | No | | http://flet.com/and/subject/charge.html | |
| | | | | | | | | | | | | | | | | | | | |
| | Japan | NTT West Japan | Incumbent | | MORE SPECIAL | DSL | 47 Mbps / 5 Mbps | n/a | JPY | 5260.5 | \$3916 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945 | 462 / month | No | n/a | No | | http://www.ntt-west.co.jp/service/subject/charge.html |
| | | | | | | | | | | | | | | | | | | | |
| NTT West Japan | | Incumbent | | | MORE 40 | DSL | 40 Mbps / 1 Mbps | n/a | JPY | 5260.5 | \$3916 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945 | 462 / month | No | n/a | No | | |
| | | | | | | | | | | | | | | | | | | | |
| NTT West Japan | | Incumbent | | | MORE 24 | DSL | 24 Mbps / 1 Mbps | n/a | JPY | \$299 | \$3944 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945 | 462 / month | No | n/a | No | | |
| | | | | | | | | | | | | | | | | | | | |
| NTT West Japan | Incumbent | | | MORE | DSL | 12 Mbps / 1 Mbps | n/a | JPY | \$155.5 | \$3838 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945 | 462 / month | No | n/a | No | | | |
| | | | | | | | | | | | | | | | | | | | |
| Japan | NTT West Japan | Incumbent | | 8 Mbps Plan | DSL | 8 Mbps / 1 Mbps | n/a | JPY | 5950.5 | \$3759 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945 | 462 / month | No | n/a | No | | | |
| | | | | | | | | | | | | | | | | | | | |
| | NTT West Japan | Incumbent | | | 1.5 Mbps Plan | DSL | 1.5 Mbps / 512 kbps | n/a | JPY | 4840.5 | \$3603 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945 | 462 / month | No | n/a | No | | |
| | | | | | | | | | | | | | | | | | | | |
| | NTT West Japan | Incumbent | | | FLET's HIKARI PREMIUM - Family | FTTH | Up to 100 Mbps down | Certain areas (unknown) | JPY | 5218.5 | \$3884 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; Optical network unit setup: 945 | n/a | n/a | No | No | | http://www.ntt-west.co.jp/service/subject/charge.html |
| | | | | | | | | | | | | | | | | | | | |
| | Japan | Jupiter Telecommunications | Entrant | | Net Utm 160M Course | Cable/FTTH Hybrid | 160 Mbps / 10 Mbps | National, except certain areas | JPY | 6300 | \$4689 | 4725+2109 (estd) or 14700 (on-site) | Contract Fee: 840; Telephone exchange setup: 1050; Optical network unit setup: 945 | 525 / month | No | n/a | No | | http://www.kom.co.jp/cable/subject.html |
| | | | | | | | | | | | | | | | | | | | |
| | | Jupiter Telecommunications | Entrant | | Net 40M Course | Cable/FTTH Hybrid | 40 Mbps / 2 Mbps | National, except certain areas | JPY | 5775 | \$4299 | n/a | Contract Fee: 840; Telephone exchange setup: 1050; Optical network unit setup: 945 | 525 / month | No | n/a | No | | |
| | | | | | | | | | | | | | | | | | | | |
| Jupiter Telecommunications | Entrant | | Net 20M Course | Cable/FTTH Hybrid | 24 Mbps / 1 Mbps | National, except certain areas | JPY | 5229 | \$3892 | n/a | Contract Fee: 840; Telephone exchange setup: 1050; Optical network unit setup: 945 | 525 / month | No | n/a | No | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Japan | Yahoo Japan | Entrant | RM | | DSL | 8 Mbps / 9 Mbps | National | JPY | 4954 | \$3688 | Construction Cost: 50,400 | Contract Fee: 1490 | 525 / month | No | 24 months | No | No | http://yahoocomm.yahoo.co.jp | |
| | | | | | | | | | | | | | | | | | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name/Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Months Charge in USD (PPP Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental and Leasing Charge | Motion Rental Charge | Broadband Bundled part of Double Play/ Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|---------|-------------------------------|--------------------|--|--|--------------------|-----------------------------------|---|------------------|--------------------------------------|--|--|---|----------------------|--|---|--|---|---|
| | Yahoo Japan | Entrant | | 12M | DSL | 12 Mbps / 1 Mbps | National | JPY | \$3.74 | \$40.00 | Construction Cost: \$940 | 1837: Basic Fee: 1490; Provider Fee: 1490 | 800/No | No | 24 months | Free; 3799 thereafter for 10 months | | |
| | Yahoo Japan | Entrant | | 26M | DSL | 26 Mbps / 1 Mbps | National | JPY | \$6.89 | \$42.25 | Construction Cost: \$940 | 1837: Basic Fee: 1490; Provider Fee: 1490 | 900/No | No | 24 months | Free; 4114 thereafter for 10 months | | |
| | Yahoo Japan | Entrant | | 50M | DSL | 50 Mbps / 3 Mbps | National | JPY | \$7.94 | \$43.13 | Construction Cost: \$940 | 1837: Basic Fee: 1490; Provider Fee: 1490 | 900/No | No | 24 months | Free; 4219 thereafter for 10 months | | |
| | Yahoo Japan | Entrant | | 50 M Revco | DSL | 50.5 Mbps / 12.5 Mbps | National | JPY | 6109 | \$45.47 | Construction Cost: \$940 | 1837: Basic Fee: 1490; Provider Fee: 1490 | 1250/No | No | 24 months | Free; 4534 thereafter for 10 months | | |
| Korea | Korea Telecom | Incumbent | | KT QOOK Internet(Light) | FTTH | 50Mbps/50Mbps | National | KRW | 25,500 | \$29.24 | 30,000/Free (if more than 1 year contract) | none | 3000 | No | 3 years | | | |
| | Korea Telecom | Incumbent | | KT QOOK Internet(Special) | FTTH | 100Mbps/100Mbps | National | KRW | 28,800 | \$33.03 | 30,000/Free (if more than 1 year contract) | none | 3000 | No | 3.5 years | | | |
| | Korea Telecom | Incumbent | | KT QOOK Internet(Checkline) | ADSL | 128Kbps/256Kbps | National | KRW | 17,850 | \$20.47 | 30,000/Free (if more than 1 year contract) | none | 8000 | No | 3 years | | | |
| Korea | Korea Telecom | Incumbent | | KT QOOK Internet(SK line) | Satellite | 512Kbps/2Mbps | National | KRW | 112,000 | \$128.44 | Free | 1,000,000/none | 10000 | No | 3 years | | | |
| | Korea Telecom | Incumbent | | NESNET | Wi-Fi | | National | KRW | 13500 | \$15.48 | Free | none | Free | No | 3 years | | | http://www.kbroadband.com/eng/kr/ |
| Korea | Hanaro Telecom (SK broadband) | Entrant | | Fiber Last(100M) | FTTH | Up to 100 Mbps down | National | KRW | 33000 | \$37.84 | 30000/0/0 | Free | Free | No | month to month | Installation waived with 1 year contract | | http://www.sktelecom.com/eng/kr/ |
| | Hanaro Telecom (SK broadband) | Entrant | | Fiber Last(100M) | FTTH | Up to 100 Mbps down | National | KRW | 32010 | \$36.71 | 30000/0/0 | Free | Free | No | 12 months | Installation waived with 1 year contract | | |
| | Hanaro Telecom (SK broadband) | Entrant | | Fiber Last(100M) | FTTH | Up to 100 Mbps down | National | KRW | 32350 | \$37.10 | 30000/0/0 | Free | Free | No | 24 months | Installation waived with 1 year contract | | |
| | Hanaro Telecom (SK broadband) | Entrant | | Fiber Last(100M) | FTTH | Up to 100 Mbps down | National | KRW | 29700 | \$34.06 | 30000/0/0 | Free | Free | No | 36 months | Installation waived with 1 year contract | | |
| | Hanaro Telecom (SK broadband) | Entrant | | Fiber Last(100M) | FTTH | Up to 100 Mbps down | National | KRW | 28050 | \$32.17 | 30000/0/0 | Free | Free | No | 40 months | Installation waived with 1 year contract | | |
| | Hanaro Telecom (SK broadband) | Entrant | | Fiber Last(100M) | FTTH | Up to 100 Mbps down | National | KRW | 27390 | \$31.41 | 30000/0/0 | Free | Free | No | 48 months | Installation waived with 1 year contract | | |
| | Hanaro Telecom (SK broadband) | Entrant | | Fiber Last Bundle | FTTH | Up to 100 Mbps down | National | KRW | 29700 | \$34.06 | Free | 0/0 | 0/0 | No | 36 months | Installation waived with 1 year contract | | http://www.skbroadband.com/eng/kr/ |
| | Hanaro Telecom (SK broadband) | Entrant | | Fiber Last Bundle with TV | FTTH | Up to 100 Mbps down | National | KRW | 36650 | \$42.01 | Free | 0/0 | 0/0 | No | 36 months | Installation waived with 1 year contract | | http://www.skbroadband.com/eng/kr/ |
| Latvia | Lattelecom | Incumbent | 46% | Internet 1 | DSL | 2 Mbps / 512 kbps | National | LVL | 12.18 | \$30.60 | SkF: free; On-site: 22.97 (w/o contract) | purchase for 29.90 | No | month to month | 87.24 month on-site free installation and modem | | http://www.lattelecom.lv/main/lattelecom/lattelecom/123706_m040262_487668.htm | |
| | Lattelecom | Incumbent | | Internet 2 | DSL | 5 Mbps / 523 kbps | National | LVL | 15.28 | \$38.39 | SkF: free; On-site: 17.94 (w/ 18 month contract); 22.97 (w/o contract) | purchase for 29.90 | No | month to month | on-site contract; free installation and modem | | | |
| | Lattelecom | Incumbent | | Internet 3 | DSL | 10 Mbps / 800 kbps | National | LVL | 17.32 | \$43.52 | SkF: free; On-site: 22.97 (w/o contract); 22.97 (w/o contract) | purchase for 29.90 | No | month to month | on-site contract; free installation and modem | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Broadband Access Market ⁶ | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Comments or National Level) | Foreign Currency | Monthly Connection Price (Currency) | Monthly Charge (Purchase Price / Partly) | Installation (Connection) Charge | Additional Charges including Late Rental / Leasing Charge | Monthly Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL | |
|---------|----------------------------|--------------------|--|--|--------------------|---|---|------------------|-------------------------------------|--|----------------------------------|---|---|---|----------------------------|--|-------------|---|---|
| Latvia | Baltkom | Entrant | | Home Connections - Basic | | Latvia: 15 Mbps / 2 Mbps; International: 10 Mbps / 2 Mbps | Plyviņskis, Purvciems, Rīga, Zolnāde, Iļģeciems, Vēgla, Īmants, Vecmīģevis | LVL | 1.21 | \$31.40 | Connection fee: 24.2 | n/a | n/a | No | month to month | w / 12 month contract, first month free & free connection; w / 24 month contract, first year 60% off & free connection | | http://www.baltkom.lv/index.php?711P2LSNSID=0316846&7120b728655f0f863f627&g=4&mp=2 | |
| | Baltkom | Entrant | | Home Connections - Professional | | Latvia: 25 Mbps / 3 Mbps; International: 15 Mbps / 1 Mbps | Rīga, Zolnāde, Iļģeciems, Vēgla, Īmants, Vecmīģevis | LVL | 16.94 | \$42.56 | Connection fee: 33.88 | n/a | n/a | No | month to month | Contract, first month free & free connection | | http://www.baltkom.lv | |
| | Baltkom | Entrant | | Basic | DSL | Latvia: 10 Mbps / 5 Mbps; International: 5 Mbps / 1 Mbps | National | LVL | 1.21 | \$31.40 | Connection fee: free | n/a | n/a | No | n/a | n/a | | | |
| | Baltkom | Entrant | | Extra | DSL | Latvia: 20 Mbps / 3 Mbps; International: 10 Mbps / 3 Mbps | National | LVL | 16.3 | \$40.95 | Connection fee: free | n/a | n/a | No | n/a | n/a | | | |
| | Baltkom | Entrant | | Lux | DSL | Latvia: 50 Mbps / 5 Mbps; International: 15 Mbps / 5 Mbps | National | LVL | 24.2 | \$60.80 | Connection fee: free | n/a | n/a | No | n/a | n/a | | | http://www.baltkom.lv |
| Latvia | Baltkom TV | Entrant | | Start Tariff | Cable | 5 Mbps / 5 Mbps | National | LVL | 10.5 | \$26.38 | n/a | n/a | Monthly Rental: 39.53; Monthly Rental: 3.95 | No | n/a | n/a | | http://www.baltkom.lv | |
| | Baltkom TV | Entrant | | Active Rate | Cable | 10 Mbps / 10 Mbps | National | LVL | 12.5 | \$31.41 | n/a | n/a | Monthly Rental: 39.53; Monthly Rental: 3.95 | No | n/a | n/a | | http://www.baltkom.lv | |
| | Baltkom TV | Entrant | | Professional | Cable | 15 Mbps / 15 Mbps | National | LVL | 17 | \$42.71 | n/a | n/a | Monthly Rental: 39.53; Monthly Rental: 3.95 | No | n/a | n/a | | http://www.baltkom.lv | |
| | Baltkom TV | Entrant | | Business Plans | Cable | 20 Mbps / 20 Mbps | National | LVL | 22.5 | \$56.53 | n/a | n/a | Monthly Rental: 39.53; Monthly Rental: 3.95 | No | n/a | n/a | | http://www.baltkom.lv | |
| | Dautkom TV | Entrant | | Silver | Cable | 2 Mbps / 512 Kbps | National | LVL | 7.18 | \$18.04 | Connection fee: 18.15 | none | n/a | No | month to month | w / 18 month contract, free connection | | http://www.dautkom.lv | |
| | Dautkom TV | Entrant | | Gold | Cable | 4 Mbps / 1 Mbps | National | LVL | 10.25 | \$25.75 | Connection fee: 18.15 | none | n/a | No | month to month | w / 18 month contract, free connection | | http://www.dautkom.lv | |
| | Dautkom TV | Entrant | | Platinum | Cable | 10 Mbps / 2.5 Mbps | National | LVL | 15.38 | \$38.64 | Connection fee: 18.15 | none | n/a | No | month to month | w / 18 month contract, free connection | | http://www.dautkom.lv | |
| | Dautkom TV | Entrant | | Bronze | FTTH | 1 Mbps / 1 Mbps | Rugāji, Krāži, Čerņepovo Lake, Šturpasa, Valmī, party the city center and the New Ferdaunda | LVL | 6 | \$15.08 | Connection fee: 18.15 | none | n/a | No | month to month | w / 18 month contract, free connection | | http://www.dautkom.lv | |
| | Dautkom TV | Entrant | | Silver | FTTH | 3 Mbps / 3 Mbps | Rugāji, Krāži, Čerņepovo Lake, Šturpasa, Valmī, party the city center and the New Ferdaunda | LVL | 9 | \$22.61 | Connection fee: 18.15 | none | n/a | No | month to month | w / 18 month contract, free connection | | http://www.dautkom.lv | |
| | Dautkom TV | Entrant | | Gold | FTTH | 18 Mbps / 8 Mbps | Rugāji, Krāži, Čerņepovo Lake, Šturpasa, Valmī, party the city center and the New Ferdaunda | LVL | 12 | \$30.15 | Connection fee: 18.15 | none | n/a | No | month to month | w / 18 month contract, free connection | | http://www.dautkom.lv | |
| Latvia | Dautkom TV | Entrant | | Platinum | FTTH | 100 Mbps / 100 Mbps | Rugāji, Krāži, Čerņepovo Lake, Šturpasa, Valmī, party the city center and the New Ferdaunda | LVL | 17 | \$42.71 | Connection fee: 18.15 | none | n/a | No | month to month | w / 18 month contract, free connection | | http://www.dautkom.lv | |
| | Dautkom TV | Entrant | | Bronze | FTTH | 1 Mbps / 1 Mbps | National | LVL | 6 | \$15.08 | Connection fee: 18.15 | none | n/a | No | month to month | w / 18 month contract, free connection | | http://www.dautkom.lv | |

| Country | Broadband Service Provider | Competition Status | Share of Retail in Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge in USD PPP (Purchase Power Parity) | Monthly Charge in Local Currency | Installation (Connection) Charge | Additional Charges including Late Rental/Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play/ Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|---------|----------------------------|--------------------|---|--|--------------------|-----------------------------------|---|------------------|---|----------------------------------|----------------------------------|---|--|--|----------------------------|--|-------------|---|
| | Daukum TV | Entrant | | Silver | FTTH | 2 Mbps / 2 Mbps | National | LVL | \$2.61 | 9 | Connection fee: 18.15 | none | n/a | No | month to month | w/ 18 months contract, free connection | | |
| | Daukum TV | Entrant | | Gold | FTTH | 4 Mbps / 4 Mbps | National | LVL | \$30.15 | 12 | Connection fee: 18.15 | none | n/a | No | month to month | w/ 18 months contract, free connection | | |
| | Daukum TV | Entrant | | Platinum | FTTH | 10 Mbps / 10 Mbps | National | LVL | \$42.71 | 17 | Connection fee: 18.15 | none | n/a | No | month to month | w/ 18 months contract, free connection | | |
| Latvia | Izzi | Entrant | | | Cable | 25 Mbps / 10 Mbps | National | LVL | \$31.41 | 12.5 | Connection fee: 14.90 | none | modem rental (if purchase: 29.90; 1.50; cable modem purchase: 29.90) | No | n/a | No | | http://www.izzi.lv/en/make-internet.html/ |
| | Izzi | Entrant | | | Cable | 60 Mbps / 15 Mbps | National | LVL | \$38.94 | 15.5 | Connection fee: 14.90 | none | modem rental (if purchase: 29.90; 1.50; cable modem purchase: 29.90) | No | n/a | No | | |
| | Izzi | Entrant | | | Cable | 100 Mbps / 50 Mbps | National | LVL | \$46.48 | 18.5 | Connection fee: 14.90 | none | modem rental (if purchase: 29.90; 1.50; cable modem purchase: 29.90) | No | n/a | No | | |
| Latvia | Livus Net | Entrant | | Email | Cable | Up to 2 Mbps down | National | LVL | \$11.31 | 4.5 | n/a | n/a | 24.90; or rent: 1.5/ month | No | n/a | No | | http://www.livus.lv/index.php?lang=lv&cid=13&lang=lv/ |
| | Livus Net | Entrant | | Start | Cable | Up to 4 Mbps down | National | LVL | \$18.84 | 7.5 | n/a | n/a | Purchase for 24.90; or rent: 1.5/ month | No | n/a | No | | |
| | Livus Net | Entrant | | Top | Cable | Up to 8 Mbps down | National | LVL | \$23.87 | 9.5 | n/a | n/a | Purchase for 24.90; or rent: 1.5/ month | No | n/a | No | | |
| | Livus Net | Entrant | | Pro | Cable | Up to 16 Mbps down | National | LVL | \$31.41 | 12.5 | n/a | n/a | Purchase for 24.90; or rent: 1.5/ month | No | n/a | No | | |
| Latvia | MPE NET | Entrant | | Local | Cable | 10 Mbps | National | LVL | \$19.25 | 7.7 | Free | n/a | n/a | No | month to month | w/ 12 month contract, first 2 months free; 2 months contract; 1st year 50% off | | http://www.mpe.lv/mpe2/latvian/latvian.php |
| | MPE NET | Entrant | | Teachers | Cable | 5 Mbps / 2 Mbps | National | LVL | \$29.87 | 11.89 | Free | n/a | n/a | No | month to month | contract first 2 months free; w/ 24 month | | |
| | MPE NET | Entrant | | Luxe | Cable | 100 Mbps / 100 Mbps | National | LVL | \$37.89 | 15.08 | Free | n/a | n/a | No | month to month | contract first 2 months free; w/ 24 month | | |
| Latvia | PRONETS | Entrant | | Children | DSL (unleashed) | 5 Mbps / 1 Mbps | National | LVL | \$20.85 | 8.3 | n/a | n/a | n/a | No | 18 months | advance, get 3 free; pay 6 months | | http://www.pronets.lv/index.php?lang=lv |
| Latvia | PRONETS | Entrant | | Kids Plus | DSL (unleashed) | 10 Mbps / 5 Mbps | National | LVL | \$24.37 | 9.7 | n/a | n/a | n/a | No | 18 months | Pay 12 months advance, get 3 free; pay 6 months; advance, get 1 free; pay 3 months advance, get 5% | | |
| | PRONETS | Entrant | | Economy | FTTH (unleashed) | 10 Mbps / 10 Mbps | National | LVL | \$25.88 | 10.3 | n/a | n/a | n/a | No | 18 months | Pay 12 months advance, get 3 free; pay 6 months; advance, get 1 free; pay 3 months advance, get 5% | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Minimum or National Level) | Foreign Currency | Monthly Charge in Foreign Currency | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental, Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|-----------|----------------------------|--------------------|--|--|--------------------|--|---|-----------------------|------------------------------------|--|----------------------------------|--|---------------------|---|---|-------------------|-------------|---|
| | | | | | | | | | 1.21 | \$30.40 | n/a | n/a | n/a | No | 18 months Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%. | | | |
| | PRONETS | Entrant | | Best | FTTH (unicast) | 20 Mbps / 10 Mbps | National | LVL | 1.43 | \$35.93 | n/a | n/a | n/a | No | 18 months Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%. | | | |
| | PRONETS | Entrant | | Universal | FTTH (unicast) | 25 Mbps / 25 Mbps | National | LVL | 17 | \$42.71 | n/a | n/a | n/a | No | 18 months Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%. | | | |
| | PRONETS | Entrant | | Self | FTTH (unicast) | 50 Mbps / 25 Mbps | National | LVL | | | n/a | n/a | n/a | No | 18 months Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%. | | | |
| | PRONETS | Entrant | | Business | FTTH (unicast) | 50 Mbps / 50 Mbps | National | LVL | 20.3 | \$51.01 | n/a | n/a | n/a | No | 18 months Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%. | | | |
| Lithuania | Teo | Incumbent | 51% | Start | DSL | Lithuania: 512 kbps down; International: 256 kbps down | National | Euro (no. Rate) & PLN | 26 | \$14.64 | Activation fee: 200 | Packaging fee: 180 | 2.00 | No | month to month w/ 24 month contract: 6 months free activation, modem: 100, packaging fee: 15 | | | http://internetis.zebra.lt/internetis_zeb_nasle |
| Lithuania | Teo | Incumbent | | Basic Plus | DSL | Lithuania: 1 Mbps down; International: 512 kbps down | National | Euro (no. Rate) & PLN | 36 | \$20.27 | Activation fee: 200 | Packaging fee: 180 | 2.00 | No | month to month w/ 24 month contract: 6 months free activation, modem: 100, packaging fee: 15 | | | |
| Lithuania | Teo | Incumbent | | Optimal Plus | DSL | Lithuania: 4 Mbps down; International: 2 Mbps down | National | Euro (no. Rate) & PLN | 49 | \$27.59 | Activation fee: 200 | Packaging fee: 180 | 2.00 | No | month to month w/ 24 month contract: 6 months free activation, modem: 100, packaging fee: 15 | | | |
| Lithuania | Teo | Incumbent | | Premium Plus | DSL | Lithuania: 10 Mbps down; International: 6 Mbps down | National | Euro (no. Rate) & PLN | 99 | \$55.74 | Activation fee: 200 | Packaging fee: 180 | 2.00 | No | month to month w/ 24 month contract: 6 months free activation, modem: 100, packaging fee: 15 | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) Mbps: International: 512 Mbps / 512 Mbps | Availability of Broadband Service Offerings (Summaries of National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Months Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental, Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL | | | |
|-----------|----------------------------|--------------------|--|--|--------------------|--|---|-------------------------|--------------------------------------|---|----------------------------------|--|---------------------|---|----------------------------|--|-------------|---|--|--|--|
| Lithuania | Tvo | Incumbent | | Basic Plus | FTTH | Lithuania: 10 Mbps / 1 Mbps; International: 512 Mbps / 512 Mbps | Certain areas (under construction) | Euro (euro, Rate) & PLN | 36 | \$20.27 | Activation fee: 200 | Packaging fee: 180 | 200/No | | month to month | w / 24-month contract: 1 month for 30, free activation, modem: 100, packaging fee: 15 | | | | | |
| | | | | | | | | | 49 | \$27.59 | Activation fee: 200 | Packaging fee: 180 | 200/No | | month to month | w / 24-month contract: 1 month for 30, free activation, modem: 100, packaging fee: 15 | | | | | |
| | | | | | | | | | 99 | \$55.74 | Activation fee: 200 | Packaging fee: 180 | 200/No | | month to month | w / 24-month contract: 1 month for 30, free activation, modem: 100, packaging fee: 15 | | | | | |
| Lithuania | Balticum TV | Entrant | | Premium Plus | FTTH | Lithuania: 100 Mbps / 6 Mbps; International: 10 Mbps / 6 Mbps | Certain areas (under construction) | Euro (euro, Rate) & PLN | 29 | \$16.33 | | Registration fee: 98 | | No | month to month | w / 12-month contract: 1 month for 30, 49 registration fee, w / 24-month contract: 3 months for 20, free registration; w / 36-month contract: 6 months for 20, free registration | | http://www.balticum.lt/UC/UC11348692/ | | | |
| | | | | | | | | | 49 | \$27.59 | | Registration fee: 98 | | No | month to month | w / 12-month contract: 1 month for 30, 49 registration fee, w / 24-month contract: 3 months for 20, free registration; w / 36-month contract: 6 months for 20, free registration | | | | | |
| | | | | | | | | | 59 | \$33.22 | | Registration fee: 98 | | No | month to month | w / 12-month contract: 1 month for 40, 49 registration fee, w / 24-month contract: 3 months for 40, free registration; w / 36-month contract: 6 months for 40, free registration | | | | | |
| Lithuania | Balticum TV | Entrant | | Cable Vilnius | Cable | Internal network: 10 Mbps down; Lithuania: 5 Mbps down; International: 5 Mbps down | Vilnius | Euro (euro, Rate) & PLN | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service (Comments or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Comments or Charge) | Additional Charges (in USD, PPP) (Registration fee, Rental, Leasing Charge) | Modern Rental Charge | Broadband Bundled (Triple Play?) | Length of Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|---------|----------------------------|--------------------|--|-------------------------------|--------------------|--|--|-----------------------|--------------------------------------|--|-----------------------------------|---|----------------------|----------------------------------|--------------------|--|-------------|--------------------------|
| | | | | | | | | | 46 | \$33.90 | | Registration fee: 09 | | | | w/ 12 month contract: 1; w/ 24 month contract: 3 months for 20; w/ 36 month contract: 6 months for 30. Free modem and registration with any contract. | | |
| | Balticum TV | Entrant | | Cable Klipeda | Cable | Lithuania: 1 Mbps down International: 512 kbps down | Klupeda | Euro (no. Rate) & PLN | 59 | \$33.22 | n/a | Registration fee: 09 | Purchase: 19 | Cable/PTV | month to month | w/ 12 month contract: 1 month for 50; w/ 24 month contract: 3 months for 50; w/ 36 month contract: 6 months for 50. Free modem and registration with any contract. | | |
| | Balticum TV | Entrant | | | Cable | Lithuania: 4 Mbps down International: 2 Mbps down | Klupeda | Euro (no. Rate) & PLN | 107 | \$60.25 | n/a | Registration fee: 09 | Purchase: 19 | Cable/PTV | month to month | w/ 12 month contract: 1 month for 70; w/ 24 month contract: 3 months for 70; w/ 36 month contract: 6 months for 70. Free modem and registration with any contract. | | |
| | Balticum TV | Entrant | | | Cable | Lithuania: 10 Mbps down; International: 6 Mbps down | Klupeda | Euro (no. Rate) & PLN | 29 | \$16.33 | n/a | Registration fee: 09 | Purchase: 19 | Cable/PTV | month to month | w/ 12 month contract: 1 month for 20; 99 registration fee; w/ 24 month contract: 3 months for 20; free registration; w/ 36 month contract: 6 months for 20; free registration. | | |
| | Balticum TV | Entrant | | Optical Vilnius | FTTH | Lithuania: 10 Mbps down; International: 512 kbps down | Vilnius | Euro (no. Rate) & PLN | | | n/a | Registration fee: 98 | n/a | No | month to month | w/ 12 month contract: 1 month for 20; 99 registration fee; w/ 24 month contract: 3 months for 20; free registration; w/ 36 month contract: 6 months for 20; free registration. | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (downstream/upstream) Mbps | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge (in USD, PPP Parity) | Monthly Charge (in USD, PPP Parity) | Installation (Connection) Charge | Additional Charges including Line Rental/Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|-----------|----------------------------|--------------------|--|--|--------------------|---|---|-----------------------|-------------------------------------|-------------------------------------|----------------------------------|---|---------------------|---|----------------------------|--|-------------|--------------------------|
| | | | | | | | | | 49 | \$27.59 | n/a | Registration fee: 98 | n/a | No | month to month | w/ 12 month contract; 1 month for 30; 49; registration fee; w: 24 month; contract; 3 months for 30; free registration; w: 36 month; contract; 3 months for 30; free registration | | |
| | Balticum TV | Entrant | | | FTTH | Lithuania: 10 Mbps down; International: 1 Mbps down | Vilnius | Euro (no. Rate) & PLN | 59 | \$33.22 | n/a | Registration fee: 98 | n/a | No | month to month | w/ 12 month contract; 1 month for 40; 49; registration fee; w: 24 month; contract; 3 months for 40; free registration; w: 36 month; contract; 6 months for 40; free registration | | |
| | Balticum TV | Entrant | | | FTTH | Lithuania: 10 Mbps down; International: 2 Mbps down | Vilnius | Euro (no. Rate) & PLN | 39 | \$21.96 | n/a | Registration fee: 98 | n/a | No | month to month | w/ 12 month contract; 1 month for 20; free registration; w: 24 month; contract; 3 months for 20; free registration; w: 36 month; contract; 6 months for 20; free registration | | |
| Lithuania | Balticum TV | Entrant | | Optical Klaipeda | FTTH | Lithuania: 100 Mbps down; International: 51.2 Mbps down | Klaipeda | Euro (no. Rate) & PLN | 59 | \$33.22 | n/a | Registration fee: 199 | n/a | No | month to month | w/ 12 month contract; 1 month for 40; free registration; w: 24 month; contract; 3 months for 40; free registration; w: 36 month; contract; 6 months for 40; free registration | | |
| | Balticum TV | Entrant | | | FTTH | Lithuania: 100 Mbps down; International: 2 Mbps down | Klaipeda | Euro (no. Rate) & PLN | | | n/a | Registration fee: 199 | n/a | No | month to month | w/ 12 month contract; 1 month for 40; free registration; w: 24 month; contract; 3 months for 40; free registration; w: 36 month; contract; 6 months for 40; free registration | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name/Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Coverage of National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Late Penalties, Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play/Triple Play? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|-----------|--|--------------------|--|--|--------------------|--|--|-----------------------|--------------------------------------|--|----------------------------------|---|----------------------|--|---|-------------------|---|--------------------------|
| | Balticum TV | Entrant | | | FTTH | Lithuania: 100 Mbps down; International: 6 Mbps down | Belgrade | Euro (no. Euro) & PLN | 99 | \$53.74 | Registration fee: 199 | none | No | month to month | w/ 12 month contract: 1 month for 60, free installation; w/ 24 month contract: 3 months for 60, free installation; w/ 36 month contract: 6 months for 60, free registration | | | |
| Lithuania | Doksetis (Miganas) | Entrant | A0 | | FTTH | Lithuania: 2 Mbps; International (afternoon): 1 Mbps; International (morning): 10 Mbps | Vilnius, Kaunas, Opole, Jonava | Euro | 25 | \$14.08 | Connection fee: 49 | none | FTTH/VOD/ IPTV | month to month | w/ 13 year contract: 18.75 | | http://www.miganas.lt/24-1/ | |
| | Doksetis (Miganas) | Entrant | A0+ | | FTTH | Lithuania: 5 Mbps; International (afternoon): 1 Mbps; International (morning): 10 Mbps | Vilnius, Kaunas, Opole, Jonava | Euro | 30 | \$16.89 | Connection fee: 49 | none | FTTH/VOD/ IPTV | month to month | w/ 13 year contract: 22.50 | | | |
| | Doksetis (Miganas) | Entrant | D1 | | FTTH | Lithuania: 40 Mbps; International (afternoon): 2 Mbps; International (morning): 20 Mbps | Vilnius, Kaunas, Opole, Jonava | Euro | 40 | \$22.52 | Connection fee: 49 | none | FTTH/VOD/ IPTV | month to month | w/ 13 year contract: 30.00 | | | |
| | Doksetis (Miganas) | Entrant | D1+ | | FTTH | Lithuania: 100 Mbps; International (afternoon): 3 Mbps; International (morning): 30 Mbps | Vilnius, Kaunas, Opole, Jonava | Euro | 50 | \$28.15 | Connection fee: 49 | none | FTTH/VOD/ IPTV | month to month | w/ 13 year contract: 37.50 | | | |
| | Doksetis (Miganas) | Entrant | D2 | | FTTH | Lithuania: 100 Mbps; International (afternoon): 4 Mbps; International (morning): 40 Mbps | Vilnius, Kaunas, Opole, Jonava | Euro | 60 | \$33.78 | Connection fee: 49 | none | FTTH/VOD/ IPTV | month to month | w/ 13 year contract: 45.00 | | | |
| | Doksetis (Miganas) | Entrant | D2+ | | FTTH | Lithuania: 100 Mbps; International (afternoon): 5 Mbps; International (morning): 50 Mbps | Vilnius, Kaunas, Opole, Jonava | Euro | 70 | \$39.41 | Connection fee: 49 | none | FTTH/VOD/ IPTV | month to month | w/ 13 year contract: 52.50 | | | |
| | Doksetis (Miganas) | Entrant | D3 | | FTTH | Lithuania: 100 Mbps; International (afternoon): 8 Mbps; International (morning): 80 Mbps | Vilnius, Kaunas, Opole, Jonava | Euro | 90 | \$50.68 | Connection fee: 49 | none | FTTH/VOD/ IPTV | month to month | w/ 13 year contract: 67.50 | | | |
| Lithuania | Lietuvos Radijo Ir Televizijos Centras | Entrant | 0/ Space | | Plug & Play | 1 Mbps down | National | Euro | 47 | \$26.46 | 43.5 Lt | none | No | month to month | Lt w/ 1 year contract: free w/ 2 year contract: 99 | | http://www.crtcvs.lt/704-1154-997292 | |
| | Lietuvos Radijo Ir Televizijos Centras | Entrant | | | Plug & Play | 2 Mbps down | National | Euro | 67 | \$37.73 | 43.5 Lt | none | No | month to month | Installation: 99 Lt w/ 1 year contract: free w/ 2 year contract: 99 | | | |
| | Lietuvos Radijo Ir Televizijos Centras | Entrant | | | Plug & Play | 5 Mbps down | National | Euro | 99 | \$55.74 | 43.5 Lt | none | No | month to month | Installation: 99 Lt w/ 1 year contract: free w/ 2 year contract: 99 | | | |
| | Lietuvos Radijo Ir Televizijos Centras | Entrant | Max. (add on service) | | Plug & Play | 2 Mbps down | National | Euro | 10 | \$6.63 | 43.5 Lt | none | No | month to month | Installation: 99 Lt w/ 1 year contract: free w/ 2 year contract: 99 | | | |
| | Lietuvos Radijo Ir Televizijos Centras | Entrant | There | | Plug & Play | 256 kbps - 128 kbps | National | LVL | 121 | \$68.13 | 99 Lt | none | No | 12 months | 1 Lt / month & free installation w/ 24 month contract | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Free Broadband Offices (Communities or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Consulting) Charge | Additional Charge Including Late Rental/Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|-----------|--|--------------------|---|--|--------------------|--|---|------------------|--------------------------------------|--|----------------------------------|--|----------------------|---|----------------------------|--|---|-----------------------------------|
| Lithuania | Lietuvos Radijo Ir Televizijos Centras | Entrant | | | Plug & Play | 612 kbps / 256 kbps | National | LVL | 171 | \$96.28 | 99 Lt | n/a | n/a | No | 12 months | 164 / month & free installation w/ 24 month contract | | |
| | Lietuvos Radijo Ir Televizijos Centras | Entrant | | | Plug & Play | 1 Mbps / 512 kbps | National | LVL | 280 | \$157.66 | 99 Lt | n/a | n/a | No | 12 months | 273 / month & free installation w/ 24 month contract | | |
| | Omnitel | Entrant | | Omnit Connect Optimum | Plug & Play | Up to 512 kbps down | National | unclear | 39 | \$21.96 | n/a | n/a | 10 € / month | No | 24 months | No | http://www.omnitel.lt/private/internet/omnit_connect.html | |
| | Omnitel | Entrant | | Omnit Connect Premium | Plug & Play | Up to 1 Mbps down | National | unclear | 69 | \$38.85 | n/a | n/a | 10 € / month | No | 24 months | No | | |
| Lithuania | Peplif. Kom. Komum. Centras. | Entrant | | | FTTH | Lithuania: 10 Mbps; International (afternoon) 1 Mbps; International (morning): 1 Mbps | Schönsee, Fabijoniškis, Pasiūčiai, Justiniškis, Viršuliškis, Plaitis, Karoliškis, Amalainis, mesageris, Haezlinis, and Širvėškis; Žemaitis microdistricts | Euro | 34 | \$19.14 | Free | 200.00 / month including tax | n/a | no | n/a | No | http://adsl.3si.lt/www.adsl3si.vf.lt/peplif/2283c-0332-201012941L | |
| | Peplif. Kom. Komum. Centras. | Entrant | | | FTTH | Lithuania: 10 Mbps; International (afternoon) 3 Mbps; International (morning): 10 Mbps | Schönsee, Fabijoniškis, Pasiūčiai, Justiniškis, Viršuliškis, Plaitis, Karoliškis, Amalainis, mesageris, Haezlinis, and Širvėškis; Žemaitis microdistricts | Euro | 49 | \$27.59 | Free | 200.00 / month including tax | n/a | no | n/a | No | | |
| Lithuania | Peplif. Kom. Komum. Centras. | Entrant | | | FTTH | Lithuania: 10 Mbps; International (afternoon) 8 Mbps; International (morning): 16 Mbps | Schönsee, Fabijoniškis, Pasiūčiai, Justiniškis, Viršuliškis, Plaitis, Karoliškis, Amalainis, mesageris, Haezlinis, and Širvėškis; Žemaitis microdistricts | Euro | 82 | \$46.17 | Free | 200.00 / month including tax | n/a | no | n/a | No | | |
| | Peplif. Kom. Komum. Centras. | Entrant | | Gold Sky | FTTH | Lithuania: 100 Mbps; International (afternoon) 10 Mbps; International (morning): 25 Mbps | Schönsee, Fabijoniškis, Pasiūčiai, Justiniškis, Viršuliškis, Plaitis, Karoliškis, Amalainis, mesageris, Haezlinis, and Širvėškis; Žemaitis microdistricts | Euro | 99 | \$55.74 | Free | 200.00 / month including tax | n/a | no | n/a | No | n/a | www.goldline.lt/internetus_komun/ |
| Lithuania | Telerena | Entrant | | Quality Plus Plan: ANI | unclear | 3.2 Mbps down | National | Euro | 37 | \$20.63 | n/a | Registration: 200 | n/a | no | n/a | n/a | n/a | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental/Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play/ Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|---------|----------------------------|--------------------|---|--|--------------------|-----------------------------------|---|------------------|--------------------------------------|--|----------------------------------|---|----------------------|--|---|-------------------|-------------|--------------------------|
| | | | | | | | | | 66 | \$37.16 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | BNI | unclear | 3.2 Mbps down | National | Euro | 101 | \$56.87 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | CNI | unclear | 4.2 Mbps down | National | Euro | 120 | \$67.57 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | DNI | unclear | 4.2 Mbps down | National | Euro | 35 | \$19.71 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | Quality Phone: M | unclear | 3.2 Mbps down | National | Euro | 64 | \$36.04 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | DI | unclear | 3.2 Mbps down | National | Euro | 99 | \$55.74 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | CI | unclear | 4.2 Mbps down | National | Euro | 118 | \$66.44 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | DI | unclear | 4.2 Mbps down | National | Euro | 20 | \$11.26 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | Economic Plus: PI-512 | unclear | 512 kbps down | National | Euro | 36 | \$20.27 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | PI-1024 | unclear | 1 Mbps down | National | Euro | 56 | \$31.53 | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| Telcel | | Entrant | | PI-1536 | unclear | 1.5 Mbps down | National | Euro | | | n/a | Registration: 200 n/a | n/a | | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (in National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Late Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL | |
|------------|----------------------------|--------------------|--|--|--------------------|---|---|------------------|--------------------------------------|--|----------------------------------|--|----------------------|---|---|---|-------------|---|--|
| Lithuania | Telerena | Entrant | | Optical Plus Plan: OOI | FTTH | Lithuania: 30 Mbps down; International: 5 Mbps down | Certain areas of Šiauliai and Radviliskis | Euro | 25 | \$14.08 | n/a | Registration: 200 | n/a | No | month to month | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| | | | | | | Lithuania: 30 Mbps down; International: 15 Mbps down | Certain areas of Šiauliai and Radviliskis | Euro | 35 | \$19.71 | n/a | Registration: 200 | No | month to month | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | | |
| | | | | | | Lithuania: 30 Mbps down; International: 15 Mbps down | Certain areas of Šiauliai and Radviliskis | Euro | 64 | \$36.04 | n/a | Registration: 200 | No | month to month | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | | |
| | | | | | | Lithuania: 30 Mbps down; International: 20 Mbps down | Certain areas of Šiauliai and Radviliskis | Euro | 99 | \$53.74 | n/a | Registration: 200 | No | month to month | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | | |
| Lithuania | Telerena | Entrant | | Optical Economic Plus: OPI-512 | FTTH | Lithuania: 30 Mbps down; International: 512 Mbps down | Certain areas of Šiauliai and Radviliskis | Euro | 20 | \$11.26 | n/a | Registration: 200 | n/a | No | month to month | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | |
| | | | | | | Lithuania: 30 Mbps down; International: 1 Mbps down | Certain areas of Šiauliai and Radviliskis | Euro | 36 | \$20.27 | n/a | Registration: 200 | No | month to month | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | | |
| | | | | | | Lithuania: 30 Mbps down; International: 1.3 Mbps down | Certain areas of Šiauliai and Radviliskis | Euro | 56 | \$31.53 | n/a | Registration: 200 | No | month to month | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | | |
| | | | | | | Lithuania: 30 Mbps down; International: 1 Mbps down | Certain areas of Šiauliai and Radviliskis | Euro | 26 | \$26.83 | n/a | Registration: 200 | No | month to month | w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration | | | | |
| Luxembourg | P&T Lux | Incumbent | 71% | Jumbo LuxDSL | DSL | 2 Mbps / 256 kbps | National | Euro | 40.1 | \$41.38 | n/a | n/a | Purchase: 54 | No | month to month | Free modern w/ 1 year+ contract | | http://www.at.lu/portal/evs/office/2015/04/16/20150416175484901335884 | |
| | | | | | | 8 Mbps / 512 kbps | National | Euro | 664 | \$68.52 | n/a | Purchase: 54 | No | month to month | Free modern w/ 1 year+ contract | | | | |
| | | | | | | 15 Mbps / 512 kbps | National | Euro | 26.1 | \$26.93 | Self: free; On-site: 130.00 | Purchase: 79 | No | 12 months | No | | | | |
| | | | | | | 2 Mbps / 256 kbps | National | Euro | 37.8 | \$39.01 | Self: free; On-site: 130.00 | Purchase: 79 | No | 12 months | No | | | | |
| Luxembourg | P&T Lux | Incumbent | | LuxDSL for Professionals | DSL | 8 Mbps / 384 kbps | National | Euro | 4.23 | \$43.65 | Self: free; On-site: 130.00 | none | Purchase: 79 | No | 12 months | No | | | |
| | | | | | | 8 Mbps / 384 kbps | National | Euro | 7.1 | \$73.37 | Self: free; On-site: 130.00 | none | Purchase: 79 | No | 12 months | No | | | |
| | | | | | | 15 Mbps / 512 kbps | National | Euro | 18.86 | \$59.06 | Self: free | Activation: Free | Free | 90 days | No | | | | |
| | | | | | | 2 Mbps / 512 kbps | National | Euro | 18.86 | \$59.06 | Self: free | Activation: Free | Free | 90 days | No | | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ⁴ | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (in or out of National Land) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Leading Charge | Modern Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|-----------------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|--|------------------|--------------------------------------|--|----------------------------------|--|----------------------|---|----------------------------|--|-------------|---|
| Malta | Go (Maltescom) | Incumbent | | | DSL | 18 Mbps / 512 kbps | National | Euro | 24.18 | \$8,522 | Self Fee | Activation Fee: Free | Free | No | No | | | |
| | Go (Maltescom) | Incumbent | | | DSL | 12 Mbps / 512 kbps | National | Euro | 32.26 | \$18,600 | Self Fee | Activation Fee: Free | Free | No | No | | | |
| | Go (Maltescom) | Incumbent | | | DSL | 20 Mbps / 512 kbps | National | Euro | 70 | \$27,325 | Self Fee | Activation Fee: Free | Free | No | No | | | http://www.maltescom.com/line/line-service.html |
| Malta (Ovto) | Medta (Ovto) | Entrant | | Medium | Cable | 5 Mbps / 256 kbps | National | Euro | 13.85 | \$5,092 | 10 none | 10 none | Free | No | 10 none | First 3 months 50% off | | |
| | Medta (Ovto) | Entrant | | Large | Cable | 10 Mbps / 512 kbps | National | Euro | 30.26 | \$11,25 | 10 none | 10 none | Free | No | 10 none | | | |
| | Medta (Ovto) | Entrant | | Extra Large | Cable | 20 Mbps / 512 kbps | National | Euro | 65 | \$238.97 | 10 none | 10 none | Free | No | 10 none | | | |
| The Netherlands | Medta (Ovto) | Entrant | | 50 Mbps | Cable | 50 Mbps / 512 kbps | National | Euro | 100 | \$367.65 | 10 none | 10 none | Free | No | 10 none | | | |
| | KPN | Incumbent | 50% | Basic | DSL | 3 Mbps / 512 kbps | National | Euro | 25 | \$38.03 | Free | Shipping installation: 8.95 | Free | No | 10 none | First 3 months 50% off | | http://www.kpn.com/line/line-service.html |
| | KPN | Incumbent | | Extra | DSL | 8 Mbps / 1 Mbps | National | Euro | 35 | \$39.24 | Free | Shipping installation: 8.95 | Free | No | 10 none | First 3 months 50% off | | |
| The Netherlands | KPN | Incumbent | | Premium | DSL | 20 Mbps / 1 Mbps | National | Euro | 50 | \$56.05 | Free | Shipping installation: 8.95 | Free | No | 10 none | First 3 months 50% off | | |
| | Ziggo | Entrant | 2-6% | Z1 | Cable | 3 Mbps / 512 kbps | National | Euro | 19.95 | \$2,237 | Self Fee: On-site: 69.95 | none | Free | No | 10 none | First 2 months free | | |
| | Ziggo | Entrant | | Z2 | Cable | 10 Mbps / 1.5 Mbps | National | Euro | 29.95 | \$33.58 | Self Fee: On-site: 69.95 | none | Free | No | 10 none | First 2 months free | | http://www.ziggo.nl/line/line-service.html |
| The Netherlands | Ziggo | Entrant | | Z3 | Cable | 25 Mbps / 4 Mbps | National | Euro | 47.95 | \$53.76 | Self Fee: On-site: 69.95 | none | Free | No | 10 none | First 2 months free | | |
| | Her Net | Entrant | 12% | Surf Boarding | DSL | 1.5 Mbps / 256 kbps | National | Euro | 19.95 | \$2,237 | Connection: Free | none | Free | No | 12 months | Discount for first 12 months, 9.95 / month | | http://www.her-net.nl/line/line-service.html |
| | Her Net | Entrant | | Quick Browsing | DSL | 8 Mbps / 1 Mbps | National | Euro | 24.95 | \$2,797 | Connection: Free | none | Free | No | 12 months | Discount for first 12 months, 19.95 / month | | |
| The Netherlands | Online (T-Mobile) | Entrant | | ADSL Basic | DSL | 20 Mbps / 1 Mbps | National | Euro | 18 | \$20.18 | Connection: Free | Shipping and handling: 25 | Free | No | 12 months | Discount for first 3 months: 10 | | http://www.online.nl/line/line-service.html |
| | Online (T-Mobile) | Entrant | | ADSL Extra | DSL | 20 Mbps / 1 Mbps | National | Euro | 20 | \$22.42 | Connection: Free | shipping and handling: 25 | Free | No | 12 months | Discount for first 3 months: 10 | | |
| | Online (T-Mobile) | Entrant | 6% | ADSL Super | DSL | 20 Mbps / 1 Mbps | National | Euro | 19.95 | \$2,237 | Self Fee | Admin costs and postage: 14.95 | Free | No | 12 months | Discount for first 3 months: 10 | | http://www.online.nl/line/line-service.html |
| The Netherlands | UPC | Entrant | 12% | Internet 5 | Cable | 5 Mbps / 512 kbps | National | Euro | 18 | \$20.18 | Free | 8.95 if not a customer of UPC | Deposit: 45 | No | 12 months | No | | http://www.upc.nl/line/line-service.html |
| | UPC | Entrant | | Fiber Power 25 | Cable | 25 Mbps / 1.5 Mbps | National | Euro | 25 | \$28.03 | Free | 9.95 if not a customer of UPC | Deposit: 45 | No | 12 months | No | | |
| | UPC | Entrant | | Fiber Power 30 | Cable | 30 Mbps / 3 Mbps | National | Euro | 30 | \$33.63 | Free | 9.95 if not a customer of UPC | Deposit: 45 | No | 12 months | No | | |
| The Netherlands | UPC | Entrant | | Fiber Power 60 | Cable | 60 Mbps / 6 Mbps | National | Euro | 40 | \$44.84 | Free | 9.95 if not a customer of UPC | Deposit: 45 | No | 12 months | No | | |
| | UPC | Entrant | | Fiber Power 90 | Cable | 90 Mbps / 6 Mbps | National | Euro | 50 | \$56.05 | Free | 9.95 if not a customer of UPC | Deposit: 45 | No | 12 months | No | | |
| | UPC | Entrant | | Fiber Power 120 | Cable | 120 Mbps / 10 Mbps | National | Euro | 70 | \$78.48 | Free | 9.95 if not a customer of UPC | Deposit: 45 | No | 12 months | No | | http://www.upc.nl/line/line-service.html |
| The Netherlands | XL-ALL | Entrant | | ADSL Start | DSL | 4 Mbps / 1 Mbps | National | Euro | 29.95 | \$33.58 | Free | none | Free | No | 12 months | Discount for first 24 months contract: 1 year of free internet | | http://www.xl-all.nl/line/line-service.html |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ¹ | Broadband Service Category/ Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service (Comments or National Law) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (One-time) Charge | Additional Charges in Lines Rented Leasing Charge | Modern Rental Charge | Broadband Bundled (Triple Play?) | Length of Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|---------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|---|------------------|--------------------------------------|--|--------------------------------|---|----------------------|----------------------------------|---|-------------------|---|--------------------------|
| | MI-ALL | Entrant | | ADSL Lite | DSL | 8 Mbps / 1 Mbps | National | Euro | 39.95 | \$44.79 | Free | none | Free | No | 9/24 month contract; 1 year of free internet; Mobile Go | | | |
| | MI-ALL | Entrant | | ADSL Basic | DSL | 20 Mbps / 1 Mbps | National | Euro | 54.95 | \$61.60 | Free | none | Free | No | 9/24 month contract; 1 year of free internet; Mobile Go | | | |
| | MI-ALL | Entrant | | ADSL Fast & Advanced Streaming | DSL | 20 Mbps / 1 Mbps | National | Euro | 74.95 | \$84.02 | Free | none | Free | No | 9/24 month contract; 1 year of free internet; Mobile Go | | | |
| Norway | Telenor | Incumbent | 50% | Broadband Basic | DSL | 1500 / 400 kbps | National | Kroner | 299 | \$31.12 | Free | Line rental fee Kroner 79 | Free | No | 12 months | No | http://www.telenor.no/rluf | |
| | Telenor | Incumbent | | Broadband Medium | DSL | 5000 / 500 kbps | National | Kroner | 399 | \$41.52 | Free | Line rental fee Kroner 79 | Free | No | 12 months | No | | |
| | Telenor | Incumbent | | Broadband Premium | DSL | 16000 / 800 kbps | National | Kroner | 499 | \$51.93 | Free | Line rental fee Kroner 79 | Free | No | 12 months | No | | |
| | Telenor | Incumbent | | Broadband Turbo | DSL | 16000 / 800 kbps | National | Kroner | 399 | \$41.52 | Free | Line rental fee Kroner 79 | Free | No | 12 months | No | | |
| Norway | NextGenTel | Entrant | 11% | ADSL 1000 | DSL | 1000 / 300 kbps | National | Kroner | 249 | \$25.91 | Free | Line rental fee 699 | Free | No | 12 months | No | http://www.nextgentel.no | |
| | NextGenTel | Entrant | | ADSL 2500 | DSL | 2500 / 500 kbps | National | Kroner | 289 | \$30.08 | Free | Line rental fee 699 | Free | No | 12 months | No | | |
| | NextGenTel | Entrant | | ADSL Full Speed | DSL | 6500 / 700 kbps | National | Kroner | 389 | \$40.48 | Free | Line rental fee 699 | Free | No | 12 months | No | | |
| | NextGenTel | Entrant | | ADSL 3500 Mega | DSL | 3500 / 1000 kbps | National | Kroner | 319 | \$33.20 | Free | Line rental fee 699 | Free | No | 12 months | No | | |
| | NextGenTel | Entrant | | ADSL 4500 Mega | DSL | 4500 / 1000 kbps | National | Kroner | 349 | \$36.32 | Free | Line rental fee 699 | Free | No | 12 months | No | | |
| | NextGenTel | Entrant | | ADSL 6000 Mega | DSL | 6000 / 1000 kbps | National | Kroner | 398 | \$41.42 | Free | Line rental fee 699 | Free | No | 12 months | No | | |
| | NextGenTel | Entrant | | ADSL Mega Free | DSL | 20000 / 1000 | National | Kroner | 469 | \$48.81 | Free | Line rental fee 699 | Free | No | 12 months | No | | |
| Norway | Ventelo | Entrant | 5% | X-Small | DSL | 1500/500 kbps | National | Kroner | 269 | \$27.99 | Free | Line rental fee 599 | Free | No | 12 months | No | http://www.ventelo.no | |
| | Ventelo | Entrant | | Small | DSL | 2500/640 kbps | National | Kroner | 299 | \$31.12 | Free | Line rental fee 599 | Free | No | 12 months | No | | |
| | Ventelo | Entrant | | Medium | DSL | 3500/640 kbps | National | Kroner | 349 | \$36.32 | Free | Line rental fee 599 | Free | No | 12 months | No | | |
| | Ventelo | Entrant | | Large | DSL | 4500/640 kbps | National | Kroner | 399 | \$41.52 | Free | Line rental fee 599 | Free | No | 12 months | No | | |
| | Ventelo | Entrant | | X-Large | DSL | 6500/640 kbps | National | Kroner | 449 | \$46.73 | Free | Line rental fee 599 | Free | No | 12 months | No | | |
| | Ventelo | Entrant | | ADSL-2 | DSL | 20000/1000 kbps | National | Kroner | 469 | \$48.81 | Free | Line rental fee 599 | Free | No | 12 months | No | | |
| Norway | Get | | 8% | | Cable | 2500/1000 kbps | Available only in Oslo, Asker, Buskerud, Ostfold, Bergen, Stavanger, Hordaland, Rogaland and Trondheim. | Kroner | 149.5 | \$15.56 | Free | none | Free | No | Yes, half of regular price effective till July 31, 2009 | | http://get.no/nextgentel/ | |
| | Get | | | | Cable | 7000/1000 kbps | Available only in Oslo, Asker, Buskerud, Ostfold, Bergen, Stavanger, Hordaland, Rogaland and Trondheim. | Kroner | 199.5 | \$20.76 | Free | none | Free | No | Yes, half of regular price effective till July 31, 2009 | | | |
| | Get | | | | Cable | 17500/1750 kbps | Available only in Oslo, Asker, Buskerud, Ostfold, Bergen, Stavanger, Hordaland, Rogaland and Trondheim. | Kroner | 249.5 | \$25.97 | Free | none | Free | No | Yes, half of regular price effective till July 31, 2009 | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Broadband Access Market ¹ | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Continuity or National Leased) | Foreign Currency | Monthly Charge in Domestic Currency | Monthly Charge (Purchase or Rent Party) | Installation Charge (Connection Charge) | Additional Charges including Late Rental/Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play/ Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|----------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|---|------------------|-------------------------------------|---|---|---|---------------------|--|----------------------------|---|---------------------|---|
| Poland | Get | | | Xtreme | Cable | 26000/2000 kbps | Available only in Olsztyn, Askar, Baskomed, Ostfeld, Bergen, Swoniger, Hingensund, Kichmanski and Trochmin. | Krower | 349.5 | \$1637 | Free | | Free | No | 12 months | Yes, half of regular price effective till July 31, 2009 | | http://www.get.pl |
| Poland | TP | Incumbent | 5.7% | 25/6 ADSL | ADSL | 25x6 kbps | National | Poland | 49 | \$23.58 | Free | | Free | No | 12 months | | | http://www.tp.pl |
| Poland | TP | Incumbent | | 512 ADSL | ADSL | 512 kbps | National | Poland | 54 | \$23.99 | Free | | Free | No | 12 months | | | |
| Poland | TP | Incumbent | | 1 mb ADSL | ADSL | 1000 kbps | National | Poland | 64 | \$30.80 | Free | | Free | No | 12 months | | | |
| Poland | TP | Incumbent | | 2 mb ADSL | ADSL | 2000 kbps | National | Poland | 79 | \$38.02 | Free | | Free | No | 12 months | | | |
| Poland | TP | Incumbent | | 6 mb ADSL | ADSL | 6000 kbps | National | Poland | 124 | \$59.67 | Free | | Free | No | 12 months | | | http://rambling.orange.com.pl/rambling.html http://www.aster.pl http://www.aster.pl/rambling.html |
| Poland | Aster Group | Entrant | 3% | Two\$twaiCable | Cable | 10Mbps/1Mbps | National | Poland | 144 | \$60.30 | Free | | Free | | | no | | http://www.telecom.pl |
| Poland | Aster Group | Entrant | | Two\$DoomCable | Cable | 8Mbps/512Kbps | National | Poland | 118 | \$56.79 | Free | | Free | | | no | | |
| Poland | Aster Group | Entrant | | Two\$NetPlusCable | Cable | 2Mbps/256Kbps | National | Poland | 84 | \$40.42 | Free | | Free | | | no | | |
| Poland | Aster Group | Entrant | | Two\$NetCable | Cable | 1Mbps/128Kbps | National | Poland | 73.99 | \$33.61 | Free | | Free | | | no | | |
| Portugal | Portugal Telecom | Incumbent | 4.3% | Sapo ADSL 8Mb | ADSL | 8 Mb | National | Euro | 19.99 | \$27.42 | 25 | | | ADSL+phone+Mobile bb | | | | http://www.telecom.pt |
| Portugal | Portugal Telecom | Incumbent | | Sapo ADSL 8Mb | ADSL | 12 Mb | National | Euro | 22.49 | \$30.85 | 25 | | | ADSL+phone+Mobile bb | | | | |
| Portugal | Portugal Telecom | Incumbent | | Sapo ADSL 8Mb | ADSL | 24 Mb | National | Euro | 24.99 | \$34.28 | 25 | | | ADSL+phone+Mobile bb | | | | |
| Portugal | Portugal Telecom | Incumbent | | MEO Fibra 20 Mega fiber | fiber | 20 Mbps | National | Euro | 49.9 | \$68.45 | 25 | | | Video+internet+phone+mobile bb | yes? | | | |
| Portugal | Portugal Telecom | Incumbent | | MEO Fibra 100 Mega fiber | fiber | 100 Mbps | National | Euro | 64.9 | \$89.03 | 25 | | | Video+internet+phone+mobile bb | yes? | | | |
| Chovisao | Chovisao | Entrant | 10% | Netvisao banda larga 3 mb | fiber + cable + | 3072Kb/256Kb | National | Euro | 17.99 | \$24.68 | 2.5.5 | | | Double/triple package only | | | 10 Gb | http://www.chovisao.pt |
| Chovisao | Chovisao | Entrant | | Netvisao banda larga 10 Mb | fiber + cable + | 3072Kb/256Kb | National | Euro | 23.99 | \$32.91 | 2.5.5 | | | Double/triple package only | | | | |
| Chovisao | Chovisao | Entrant | | Netvisao banda larga 30 Mb | fiber + cable + | 30720Kb/10240Kb | National | Euro | 44.99 | \$61.71 | 2.5.5 | | | Double/triple package only | | | | |
| Chovisao | Chovisao | Entrant | | Internet isolado 10 Mb | fiber | 10240Kb/512Kb | National | Euro | 34.71 | \$47.61 | 51 install /25.5 | | | | | | 10Gb | |
| Chovisao | Chovisao | Entrant | | Internet isolado 20 Mb | fiber | 20480Kb/1024Kb | National | Euro | 44.63 | \$61.22 | 51 install /25.5 | | | | | | 30Gb | |
| Chovisao | Chovisao | Entrant | | Internet isolado 30 Mb | fiber | 30720Kb/10240Kb | National | Euro | 58.51 | \$80.26 | 51 install /25.5 | | | | | | 50Gb | |
| Portugal | Optimus/Novis | Entrant | | Kangaroo fixed | ADSL | 4 Mbps | National | Euro | 25.4 | \$34.84 | none | | | | 24 months | | | http://www.optimus.pt |
| Portugal | ZON | Entrant | 2.7% | 5Mb ZON Net Cable | cable | 5 Mb / 128Kb | National | Euro | 19.99 | \$27.42 | 40 install | | | requires cable TV service | | | 10 Gb international | http://www.zon.pt |
| Portugal | ZON | Entrant | | 10Mb ZON Net Cable | cable | 10 Mb / 256Kb | National | Euro | 24.99 | \$34.28 | 40 install | | | requires cable TV service | | | | |
| Portugal | ZON | Entrant | | 20Mb ZON Net Cable | cable | 20 Mb / 512Kb | National | Euro | 35.99 | \$49.37 | 40 install | | | requires cable TV service | | | | |
| Portugal | ZON | Entrant | | 30Mb ZON Net Cable | cable | 30 Mb / 1 Mb | National | Euro | 59.99 | \$82.29 | 40 install | | | requires cable TV service | | | | |
| Romunia | Roanitecom | Incumbent | 2.2% | Clickse 2 Mbps | ADSL | 2084 kbps/512 kbps | National | Euro | 4.88 | \$2.76 | free | | | requires phone service | | | | http://www.roanitecom.ro |
| Romunia | Roanitecom | Incumbent | | Clickse 4 Mbps | ADSL | 4096 kbps/512 kbps | National | Euro | 7.02 | \$3.97 | | | | requires phone service | | | | |
| Romunia | Roanitecom | Incumbent | | Clickse 6 Mbps | ADSL | 6144 kbps/512 kbps | National | Euro | 9.4 | \$5.32 | | | | requires phone service | | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Months Charge in USD (PPP Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental, Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL | |
|-----------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|---|------------------|--------------------------------------|--|----------------------------------|--|---------------------|---|----------------------------|-------------------|-------------|--------------------------|---|
| | Romtelecom | Incumbent | | Clicknet 8 Mbps | ADSL | 8192 kbps / 768 kbps | National | Euro | 14.16 | \$8.01 | | | | requires phone service | | | | | |
| | Romtelecom | Incumbent | | Clicknet 20 Mbps | ADSL | 20480 kbps / 1024 kbps | National | Euro | 24.87 | \$14.07 | | | | requires phone service | | | | | |
| | Romtelecom | Incumbent | | Clicknet VDSL 20 Mbps | VDSL | 20 Mbps / 2 Mbps | Timisoara, Cluj, Iasi, Ploiesti, Braila, Bacau, Sibiu, Vaslui, Galati, Constanta, Pitesti | Euro | 9.9 | \$5.60 | | | | requires phone service | | | | | |
| | Romtelecom | Incumbent | | Clicknet VDSL 30 Mbps | VDSL | 30 Mbps / 3 Mbps | Timisoara, Cluj, Iasi, Ploiesti, Braila, Bacau, Sibiu, Vaslui, Galati, Constanta, Pitesti | Euro | 14.9 | \$8.43 | | | | requires phone service | | | | | |
| | Airfibres | Entrant | | internet | internet | | Boyn / Bihor, Bacau, Iasi, Botosani, Braila, Constanta, Galati, Giurgiu, Harghita, Iasi, Maramures, Mehedinti, Neamt, Prahova, Suceava, Vaslui, Vrancea | Euro | 5 | \$2.83 | | one month fee for < 5 Mbps | | | 12 months | | | | http://airfibres.ro |
| | UPC Romania | Entrant | | UPC internet Small | | 2 Mbps / 512 kbps | National | lei | 22 | \$12.45 | free | | | | | | | | http://www.upc.ro |
| | UPC Romania | Entrant | | UPC internet Medium | | 12 Mbps / 2 Mbps | National | lei | 32 | \$18.11 | free | | | | | | | | |
| | UPC Romania | Entrant | | UPC internet Large | | 24 Mbps / 4 Mbps | National | lei | 52 | \$29.43 | free | | | | | | | | |
| Singapore | Stargnet | Incumbent | 51% | SingNet Broadband 15Mbps | ADSL | Up to 15Mbps/Up to 1Mbps | National | Singapore dollar | \$59.90 | \$42.04 | free | \$42.80 activation charge / \$9.81 line rental charge / free | | no | 24 months | Yes | unlimited | | http://www.isntel.com/singnet/home |
| | Stargnet | Incumbent | | SingNet Broadband 10Mbps | ADSL | Up to 10Mbps/Up to 1Mbps | National | Singapore dollar | \$46.90 | \$32.91 | free | \$42.80 activation charge / \$9.81 line rental charge / free | | no | 24 months | Yes | unlimited | | http://www.isntel.com/singnet/home |
| | Stargnet | Incumbent | | SingNet Broadband 6Mbps | ADSL | Up to 6000Kbps / Up to 512 kbps | National | Singapore dollar | \$35.90 | \$25.19 | free | \$42.80 activation charge / \$9.81 line rental charge / free | | no | 24 months | Yes | unlimited | | http://www.isntel.com/singnet/home |
| | Stargnet | Incumbent | | SingNet Broadband 3Mbps | ADSL | Up to 3000Kbps / Up to 256 kbps | National | Singapore dollar | \$23.72 | \$16.65 | free | \$42.80 activation charge / \$9.81 line rental charge / free | | no | 24 months | Yes | unlimited | | http://www.isntel.com/singnet/home |
| Singapore | StarHub | | 38% | Max. Online Surf Lite | Cable | 2 Mbps/256 Kbps | National | Singapore dollar | \$39.96 | \$21.02 | \$53.50 | \$32.10 activation charge / free | | | 12 months | Yes | | | |
| | StarHub | | | Max. Online Express | Cable | 8 Mbps/768 Kbps | National | Singapore dollar | \$59.92 | \$42.05 | \$53.50 | \$32.10 activation charge / free | | | 12 months | Yes | | | |
| | StarHub | | | Max. Online Premium | Cable | 12 Mbps / 1.2 Mbps | National | Singapore dollar | \$81.32 | \$57.07 | \$53.50 | \$32.10 activation charge / free | | | 12 months | Yes | | | |
| | StarHub | | | Max. Online Ultimate | Cable | 100 Mbps/10 Mbps | National | Singapore dollar | \$124.12 | \$87.10 | \$53.50 | \$32.10 activation charge / free | | | 12 months | Yes | | | |
| Singapore | Pac-Net | | | Broadband 51.2 kbps unlimited plan | ADSL | 512 kbps | National | Singapore dollar | \$34.98 | \$24.55 | free | free | free | | 12 months | Yes | unlimited | | http://www.starhub.com.sg/pcnet/subscribe.html |
| | Pac-Net | | | Cable 30 mbps unlimited plan | Cable | 30 Mbps / 1 Mbps | National | Singapore dollar | \$124.12 | \$87.10 | free | free | free | | 12 months | Yes | unlimited | | |
| | Pac-Net | | | Cable 12 mbps unlimited plan | Cable | 12 Mbps / 984 Kbps | National | Singapore dollar | \$69.55 | \$48.81 | free | free | free | | 12 months | Yes | unlimited | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Minimum or National Level) | Foreign Currency | Monthly Charge in Foreign Currency | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Rental, Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|----------|----------------------------|--------------------|--|--|--------------------|--------------------------------------|---|------------------|------------------------------------|--|----------------------------------|--|---------------------|---|----------------------------|-------------------|-------------|---|
| | ProxNet | | | Cable 8 mbps unlimited plan | cable | 8 Mbps/256 kbps | National | Singapore dollar | \$59.92 | \$42.05 | \$42.75 activation fee charge | free | | | 12 months | | unlimited | |
| Slovakia | T-COM Slovakia | Incumbent | 54% | Turbo 1 | ADSL | 2048 kbps / 256 kbps | National, where feasible | Euro | 13.95 | \$0.75 | 1 | | | 1 euro/mo higher w/o pho | 24 months | yes | | http://www.tcom.sk |
| | T-COM Slovakia | Incumbent | | Turbo 2 | ADSL | 2048 kbps / 256 kbps | National, where feasible | Euro | 21.95 | \$1.19 | 1 | | | 2 euro/mo higher w/o pho | 24 months | yes | | |
| | T-COM Slovakia | Incumbent | | Turbo 3 | ADSL | 3584 kbps / 256 kbps | National, where feasible | Euro | 24.95 | \$1.35 | 1 | | | 3 euro/mo higher w/o pho | 24 months | yes | | |
| | T-COM Slovakia | Incumbent | | Turbo 4 | ADSL | 12,288 kbps / 512 kbps | National, where feasible | Euro | 36.95 | \$2.00 | 1 | | | 3 euro/mo higher w/o pho | 24 months | yes | | |
| Slovakia | Orange | Entrant | | Internet at home | | 3.6 Mbps (up to 5 GB, 64 kbps after) | | Euro | 14.9 | \$0.81 | | | | | | | | http://www.orange.sk |
| | Orange | Entrant | | FiberNet Promo | fiber | 10 Mbps / 1 Mbps | 12 cities | Euro | 16.5 | \$0.89 | | | | | | | | |
| | Orange | Entrant | | FiberNet Start | fiber | 20 Mbps / 2 Mbps | 12 cities | Euro | 19.9 | \$1.08 | | | | | | | | |
| | Orange | Entrant | | FiberNet Klask | fiber | 40 Mbps / 4 Mbps | 12 cities | Euro | 23.9 | \$1.29 | | | | | | | | |
| Slovakia | Orange | Entrant | | FiberNet Premium | fiber | 70 Mbps / 7 Mbps | 12 cities | Euro | 39.5 | \$2.14 | | | | | | | | |
| Slovakia | UPC Slovakia | Entrant | | Chello Silver | cable | 3072/384 kbps | 21 cities | Euro | 15 | \$0.81 | 1 (self-install) | | | | 24 months | | | http://www.upc.sk |
| | UPC Slovakia | Entrant | | Chello Gold | cable | 4560/1520 kbps | 21 cities | Euro | 22 | \$1.19 | 1 (self-install) | | | | 24 months | | | |
| | UPC Slovakia | Entrant | | Chello Diamond | cable | 30720/3072 kbps | 21 cities | Euro | 27 | \$1.46 | 1 (self-install) | | | | 24 months | | | |
| | UPC Slovakia | Entrant | | Business Class | cable | 30720/4096 kbps | 21 cities | Euro | 35 | \$1.89 | 1 (self-install) | | | | 24 months | | | |
| Slovakia | Telekom Slovensko | Incumbent | 48% | Internet S | ADSL | 2 Mbps/384 kbps | where available | Euro | 2.6 | \$38.69 | 1 (self-install) | | | | 24 months | | | http://www.skckom.sk/en/home |
| | Telekom Slovensko | Incumbent | | Internet XS | VDSL2 | 1 Mbps / 1 Mbps | where available | Euro | 2.6 | \$38.69 | | | | | | | | |
| | Telekom Slovensko | Incumbent | | Internet S | fiber | 60 Mbps / 60 Mbps | where available | Euro | 2.6 | \$38.69 | | | | | | | | |
| | UPC Telekom | Incumbent Cable | | Internet XS | cable | 512 k / 128 k | 3 cities | Euro | 15 | \$2.32 | 40 (w/o 12m contract?) | | opt. 30.9 to buy | requires cable service | 12 months | | | http://www.upc.sk |
| | UPC Telekom | Incumbent Cable | | Internet S | cable | 2 M / 384 k | 3 cities | Euro | 20 | \$29.76 | 40 (w/o 12m contract?) | | opt. 30.9 to buy | 8.95/67 | 12 months | | | |
| | UPC Telekom | Incumbent Cable | | Internet M | cable | 10 M / 768 k | 3 cities | Euro | 30 | \$44.64 | 40 (w/o 12m contract?) | | opt. 30.9 to buy | requires cable service | 12 months | | | |
| | UPC Telekom | Incumbent Cable | | Internet L | cable | 15 M / 1.5 M | 3 cities | Euro | 40 | \$59.52 | 40 (w/o 12m contract?) | | opt. 30.9 to buy | requires cable service | 12 months | | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market ¹ | Broadband Service Category / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service (Commitments or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation Charge (one-time) | Additional Charge (incl. Rental, Leasing Charge) | Modern Rental Charge | Broadband Provider Triple Play ² | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|----------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|---|------------------|--------------------------------------|--|---|--|----------------------|---|----------------------------|--|-------------|--|
| | UPC Telekom | Incumbent Cable | | Internet XL | cable | 25 M / 2 M | 3 cities | Euro | 50 | \$74.40 | 40 (w/o 12m contract?) | | opt. 70.9 to buy | requires cable service | 12 months | | | |
| Slovenia | Amis | Entrant | | Fiber | fiber | 15 M / 15 M | | Euro | 16.27 | \$24.21 | | | | | | | | http://www.amis.net |
| | Amis | Entrant | | | fiber | 20 / 20 | | Euro | 20 | \$29.76 | | | | | | | | |
| | Amis | Entrant | | | fiber | 25 / 25 | | Euro | 25 | \$37.20 | | | | | | | | |
| | Amis | Entrant | | | fiber | 50 / 50 | | Euro | 48 | \$71.43 | | | | | | | | |
| | Amis | Entrant | | Cable | cable | 1 M / 256 k | | Euro | 16.27 | \$24.21 | | | | requires cable service | | | | |
| | Amis | Entrant | | | cable | 1.5 M / 256 k | | Euro | 1.78 | \$2.65 | | | | requires cable service | | | | |
| | Amis | Entrant | | | cable | 2 M / 384 k | | Euro | 19.27 | \$28.68 | | | | requires cable service | | | | |
| | Amis | Entrant | | | cable | 4 M / 512 k | | Euro | 22.27 | \$33.14 | | | | requires cable service | | | | |
| | Amis | Entrant | | | cable | 4 M / 386 k | | Euro | 19 | \$28.27 | | | | requires cable service | | | | |
| Slovenia | T-2 | Entrant | | FTTH | fiber | 10 M / 10 M | | Euro | 14 | \$20.83 | free | | | | | | | http://www.t-2.net/ |
| | T-2 | Entrant | | | fiber | 100 M / 10 M | | Euro | 20 | \$29.76 | free | | | | | | | |
| | T-2 | Entrant | | | fiber | 50 M / 50 M | | Euro | 50 | \$74.40 | free | | | | | | | |
| | T-2 | Entrant | | | fiber | 100 M / 100 M | | Euro | 100 | \$148.81 | free | | | | | | | |
| | T-2 | Entrant | | VDSL | VDSL | 1 M / 256 k | | Euro | 14 | \$20.83 | free | | | 6 higher w/o phone | | | | |
| | T-2 | Entrant | | | VDSL | 4 M / 1 M | | Euro | 18 | \$26.79 | free | | | 6 higher w/o phone | | | | |
| | T-2 | Entrant | | | VDSL | 10 M / 2 M | | Euro | 23 | \$34.23 | free | | | 6 higher w/o phone | | | | |
| | T-2 | Entrant | | | VDSL | 20 M / 4 M | | Euro | 28 | \$41.67 | free | | | 6 higher w/o phone | | | | |
| | T-2 | Entrant | | | VDSL | 40 M / 8 M | | Euro | 49 | \$72.92 | free | | | 6 higher w/o phone | | | | |
| | T-2 | Entrant | | | VDSL | 60 M / 25 M | | Euro | 70 | \$104.17 | free | | | 6 higher w/o phone | | | | |
| Spain | Telefonica | Incumbent | 56% | Duo ADSL 6 Mb | ADSL | 6 MB/8320 kbps | where available | Euro | 299 | \$37.52 | free rental, if needed, 13.97 / per month | | | yes - national calling to minutes fixed-mobile call 0 per month | 12 months | yes, expires free router free router online only | | www.telefonica.es |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge (in USD, PPP (Purchasing Power Parity)) | Installation (Connection) Charge | Additional Charges including Line Rental/ Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play/ Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL | | |
|---------|----------------------------|--------------------|---|---|--------------------|-----------------------------------|---|------------------|--------------------------------------|--|----------------------------------|---|----------------------|---|----------------------------|---|--|--|--|--|
| Spain | Telefonica | Incumbent | | Duo ADSL 10 Mb | ADSL | 10 MBPS/20 kbps | where available | Euro | 33.9 | \$42.53 | | line rental, if needed, 13.97 per month | | yes - national calling to landlines included | 12 months | yes, expires 01/4, 2009, line router on line only | none | www.telefonica.es | | |
| | Telefonica | Incumbent | | Imagenio Conexion 6 Mb | ADSL | 6 MBPS/320 kbps | where available | Euro | 32.9 | \$41.28 | 39.95 | line rental, if needed, 13.97 per month | | 0 TV | 12 months | yes, expires 01/4, 2009 | none | www.telefonica.es | | |
| | Telefonica | Incumbent | | Imagenio Conexion 10 Mb | ADSL | 10 MBPS/320 kbps | where available | Euro | 36.9 | \$46.30 | 39.95 | line rental, if needed, 13.97 per month | | 0 TV | 12 months | yes, expires 01/4, 2009 | none | www.telefonica.es | | |
| | Telefonica | Incumbent | | Trio Imagenio Familiar + ADSL 6 Mb + Llamadas | ADSL | 6 MBPS/320 kbps | where available | Euro | 44.9 | \$56.34 | | line rental, if needed, 13.97 per month, decoder 6.50 per month | | yes - national calling + TV + 60 minutes fixed mobile calls per month | 12 months | yes, expires 01/4, 2009 | none | www.telefonica.es | | |
| | Telefonica | Incumbent | | Trio Imagenio Familiar + ADSL 10 Mb + Llamadas | ADSL | 10 MBPS/320 kbps | where available | Euro | 48.9 | \$61.36 | | line rental, if needed, 13.97 per month, decoder 6.50 per month | | yes - national calling + TV | 12 months | yes, expires 01/4, 2009 | none | www.telefonica.es | | |
| | Telefonica | Incumbent | | | | | | | 80.00 | | | | | | | | | | | |
| | Ono | Entrant | 13% | ONO 2: Telefono + Banda Ancha 3 Mb | cable | 3 MBPS/150 kbps | where available | Euro | 29.9 | \$37.52 | 0 (new clients) | | | yes - national calling to fixed lines included | 18 months | yes, expires Sept 30, 2009 | | www.ono.es | | |
| | Ono | Entrant | | ONO 2: Telefono + Banda Ancha 6 Mb | cable | 6 MBPS/300 kbps | where available | Euro | 29.9 | \$37.52 | 0 | | | 0 fixed lines included | 18 months | yes, expires Sept 30, 2009 | | www.ono.es | | |
| | Ono | Entrant | | ONO 2: Telefono + Banda Ancha 12 Mb | cable | 12 MBPS/500 kbps | where available | Euro | 29.9 | \$37.52 | 0 | | | 0 fixed lines included | 18 months | yes, expires Sept 30, 2009 | | www.ono.es | | |
| | Ono | Entrant | | ONO 2: Telefono + Banda Ancha 30 Mb | cable | 60 MBPS/3 MBPS | Madrid | where available | Euro | 49.9 | \$62.61 | 0 | | 0 fixed lines included | 18 months | yes, expires Sept 30, 2009 | none | www.ono.es | | |
| Spain | Ono | Entrant | | Banda Ancha 3 Mb + Television Escencial + ADSL 6 Mb | cable | 3 MBPS/150 kbps | where available | Euro | 34.9 | \$43.79 | 0 | | 0 TV included | 18 months | yes, expires Sept 30, 2009 | | www.ono.es | | | |
| | Ono | Entrant | | ONO 3: Telefono + Television Escencial + Banda Ancha 6 Mb | cable | 6 MBPS/300 kbps | where available | Euro | 39.9 | \$50.66 | 0 | | 0 TV included | 18 months | yes, expires Sept 30, 2009 | | www.ono.es | | | |
| | Ono | Entrant | | ONO 3: Telefono + Television Escencial + Banda Ancha 12 Mb | cable | 12 MBPS/500 kbps | where available | Euro | 39.9 | \$50.66 | 0 | | 0 TV included | 18 months | yes, expires Sept 30, 2009 | | www.ono.es | | | |
| | Ono | Entrant | | ONO 3: Telefono + Banda Ancha 30 Mb + Television Escencial + ADSL 6 Mb | cable | 60 MBPS/3 MBPS | Madrid | where available | Euro | 54.9 | \$68.88 | 0 | | 0 TV included | 18 months | yes, expires Sept 30, 2009 | none | www.ono.es | | |
| | Orange | Entrant | 6% | Maxima Velocidad Wi-Fi + Banda Ancha 3 Mb (with Orange line) | ADSL | 20 Mbps / 1 Mbps | | Euro | 34.95 | \$43.85 | 0 self install | line included, line adaptor 15 Euros | | yes - national calling to fixed lines, basic cable TV included | 18 months | yes, expires Sept 30, 2009 | none | www.orange.es | | |
| | Orange | Entrant | | Troche on 1: ADSL Maxima Velocidad Linea + ADSL + Ilumadas (with Orange line) | ADSL | 20 MBPS/1 Mbps | | Euro | 34.95 | \$43.85 | 0 self install | line included, line adaptor 15 Euros | | yes - national calling to fixed lines | 18 months | yes, expires Sept 30, 2009 | none | www.orange.es | | |
| | Orange | Entrant | | ADSL + Ilumadas (without Orange line) 6 Mb | ADSL | 6 Mbps / 512 kbps | | Euro | 10 | \$12.55 | 0 self install | | | yes - national calling to fixed lines included | 18 months | yes - but expiration not yet determined | | www.orange.es | | |
| | Orange | Entrant | | ADSL + Ilumadas (with Orange line) 6 Mb + Ilumadas + macinoides + TV | ADSL | 6 Mbps / 512 kbps | | Euro | 24.95 | \$31.30 | 0 self install | | | yes - national calling to fixed lines and TV included | 18 months | | | www.orange.es | | |
| | Orange | Entrant | | Oferta exclusiva ADSL Orange y Digital + Empec: ADSL 10 Mb with line | ADSL | 10 Mbps / 1 Mbps | | Euro | 1.5 | \$18.82 | 0 self install | line not included, 20.95 per month for digital + TV | | yes - national calling to fixed lines included | 18 months | | | www.orange.es | | |
| | Orange | Entrant | | ADSL 10 Mb without line (without ADSL 4 Mb with line) | ADSL | 10 Mbps / 1 Mbps | | Euro | 1.5 | \$18.82 | 0 self install | line not included, line cost per month | | yes - national calling to fixed lines included | 18 months | | | www.orange.es | | |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name/Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Coverage National/Local) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge in USD, PPP (Purchasing Power Parity) | Installation (Connection) Charge | Additional Charges including Line Leasing Charge | Modern Rental Charge | Broadband Bundled part of Double Play/Triples Play? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|----------------|----------------------------|--------------------|--|--|--------------------|-----------------------------------|---|------------------|--------------------------------------|--|----------------------------------|--|----------------------|---|----------------------------|---|-------------|---|
| | Orange | Entrant | | Professional ADSL 4 Mb without line | ADSL | 4 Mbps / 1 Mbps | nationwide | Euro | 15 | \$18.82 | 0 (self-install) | line not included | | yes - national calling to fixed lines included | 18 months | | | www.orange.se |
| Sweden | Telia Sonera | Incumbent | 38% | Broadband | ADSL | 20.0-25 Mbps | nationwide | | 229 | \$24.46 | 0 | 0 | 99 | | 18 months | | | |
| | Telia Sonera | Incumbent | | Broadband | ADSL | 1.5-2 Mbps | nationwide | | 259 | \$27.66 | 0 | 0 | 99 | | 18 months | | | |
| | Telia Sonera | Incumbent | | Broadband | ADSL | 6-8 Mbps | nationwide | | 309 | \$33.00 | 0 | 0 | 99 | | 18 months | | | |
| | Telia Sonera | Incumbent | | Broadband | ADSL | 12-24 Mbps | nationwide | | 359 | \$38.34 | 0 | 0 | 99 | | 18 months | | | |
| Sweden | Brebandbolaget | Entrant | 15% | Broadband 60 | DSL | 60 Mbps | nationwide | Kroner | 399 | \$42.61 | 495 | 69 | | | | | | http://www.brebandbolaget.se |
| | Brebandbolaget | Entrant | | Broadband 24 | DSL | 24 Mbps | nationwide | Kroner | 349 | \$37.27 | 495 | 69 | | | | | | http://www.brebandbolaget.se |
| | Brebandbolaget | Entrant | | Broadband 8 | DSL | 8 Mbps | nationwide | Kroner | 319 | \$34.07 | 495 | 69 | | | | | | http://www.brebandbolaget.se |
| | Brebandbolaget | Entrant | | Broadband 2 | DSL | 2 Mbps | nationwide | Kroner | 249 | \$26.59 | 495 | 69 | | | | | | http://www.brebandbolaget.se |
| Sweden | Comhem | Entrant | 13% | Broadband Extra small | Cable | 5 Mbps/2.5Mbps | nationwide | Kroner | 99 | \$10.57 | | | | | | | | http://www.comhem.se/ |
| | Comhem | Entrant | | Broadband small | Cable | 2 Mbps / 5 Mbps | nationwide | Kroner | 199 | \$21.25 | | | | | | | | |
| | Comhem | Entrant | | Broadband Medium | Cable | 10 Mbps | nationwide | Kroner | 99 | \$10.57 | | | | | 12 months | Yes | | |
| | Comhem | Entrant | | Broadband Large | Cable | 24 Mbps | nationwide | Kroner | 99 | \$10.57 | | | | | 12 months | Yes | | |
| Sweden | Glasfiber | Entrant | 5% | Broadband 1-4 | ADSL | 1 Mbps | nationwide | Kroner | 249 | \$26.59 | 0 | 0 | | | 12 months | | | http://www.glasfiber.se/index.php |
| | Glasfiber | Entrant | | Broadband 6-10 | ADSL | 6 Mbps | nationwide | Kroner | 279 | \$29.80 | 0 | 0 | | | 12 months | | | |
| | Glasfiber | Entrant | | Broadband 12-24 | ADSL | 12 Mbps | nationwide | Kroner | 299 | \$31.93 | 0 | 0 | | | 12 months | | | |
| United Kingdom | British Telecom | Incumbent | 26% | BT Total Broadband, Option 1 | wireless | up to 20MBPS (upload unspecified) | | Pound | 7.78 | \$11.95 | 0 (self-install) | | | no | 18 months | yes - 3 months, 15.65 thereafter, 10 GB | | www.bt.com |
| | British Telecom | Incumbent | | BT Total Broadband, Option 2 | wireless | up to 20MBPS (upload unspecified) | | Pound | 13.69 | \$21.03 | 0 (self-install) | | | no | 18 months | yes - 3 months, 20.54 thereafter, 20 GB | | www.bt.com |
| | British Telecom | Incumbent | | BT Total Broadband, Option 3 | wireless | up to 20MBPS (upload unspecified) | | Pound | 18.59 | \$28.56 | 0 (self-install) | | | no | 18 months | yes - 3 months, 24.46 thereafter, unlimited | | www.bt.com |
| | British Telecom | Incumbent | | Broadband and TV - simplicity | wireless | up to 20MBPS (upload unspecified) | | Pound | 18.59 | \$28.56 | 0 (self-install) | for TV = 11.25 line rental per month | | yes - bb, calls, and on-demand TV | 18 months | thereafter (+1.468 TV +) | 10 GB | www.bt.com |
| | British Telecom | Incumbent | | Broadband and TV - more BB | wireless | up to 20MBPS (upload unspecified) | | Pound | 0 | \$0.00 | 0 (self-install) | for TV = 11.25 line rental per month | | yes - bb, calls, and on-demand TV | 18 months | thereafter (+1.468 TV +) | unlimited | www.bt.com |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Service Offerings (Community or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge (in USD, PPP (Purchasing Power Parity)) | Installation (Connection) Charge | Additional Charges including Line Rental / Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play / Triple Play ? | Length of Service Contract | Promotional Price | Usage limit | Broadband Provider's URL |
|----------------|----------------------------|--------------------|---|--|------------------------------------|-----------------------------------|---|------------------|--------------------------------------|--|----------------------------------|---|---------------------|---|----------------------------|--|-------------------------------|--|
| | British Telecom | Incumbent | | Broadband and TV - maximum | wireless | up to 20MBPS (upload unspecified) | | Pound | 23.48 | \$36.07 | 0 (self-install) | for TV = 11.25 line rental per month | 0 | yes - bb, calls, and on-demand TV | 18 months | months, 24.46 thereafter (+1.25 line rental) 19.57 for TV | unlimited | www.bt.com |
| | British Telecom | Incumbent | | Broadband and calls - get connected | wireless | up to 20MBPS (upload unspecified) | | Pound | 11.25 | \$17.28 | 0 (self-install) | 11.25 line rental | 0 | yes - bb & phone | 18 months | yes - 3 months, 15.65 thereafter (+1.25 line rental) 10 GB | 10 GB | www.bt.com |
| | British Telecom | Incumbent | | Broadband and calls - more talk | wireless | up to 20MBPS (upload unspecified) | | Pound | 16.2 | \$24.88 | 0 (self-install) | 4.95 per month for calls + 11.25 line rental per month | 0 | yes - bb & phone | 18 months | yes - 3 months, 15.65 thereafter (+4.95 for calls + line rental) 10 GB | 10 GB | www.bt.com |
| | British Telecom | Incumbent | | Broadband and calls - unlimited | wireless | up to 20MBPS (upload unspecified) | | Pound | 0 | \$0.00 | 0 (self-install) | 4.95 per month for calls + 11.25 line rental per month | 0 | yes - bb & phone | 18 months | yes - 3 months, 15.65 thereafter (+14.68 TV + 11.25 line rental) 10 GB | 10 GB | www.bt.com |
| | British Telecom | Incumbent | | calls, BB and TV - more | wireless | up to 20MBPS (upload unspecified) | | Pound | 0 | \$0.00 | 0 (self-install) | 7.34 per month for TV + 11.25 line rental per month | 0 | yes - bb, TV and phone | 18 months | yes - 3 months, 15.65 thereafter (+14.68 TV + 11.25 line rental) 10 GB | 10 GB | www.bt.com |
| | British Telecom | Incumbent | | calls, BB and TV - full house | wireless | up to 20MBPS (upload unspecified) | | Pound | 0 | \$0.00 | 0 (self-install) | 12.25 per month for TV + 11.25 line rental per month | 0 | yes - bb, TV and phone | 18 months | yes - 3 months, 24.46 thereafter (+14.68 TV + 11.25 line rental) 10 GB | 10 GB | www.bt.com |
| United Kingdom | Bbox B | Entrant | 11% | Sky Broadband Base | ADSL-2 | up to 2 MBPS / up to 400 Kbps | where available (71% of country) | Pound | 5 | \$7.68 | 60 (from BT) | 11.25 line rental | 0 | no | 12 months | no | 2 GB | www.sky.com |
| | Bbox B | Entrant | | Sky Broadband Base with Sky Talk | ADSL-2 | up to 2 MBPS / up to 400 Kbps | | Pound | 11 | \$16.90 | | 11.00 monthly line rental from Sky | 0 | yes - bb & phone | 12 months | no | 2 GB | www.sky.com |
| | Bbox B | Entrant | | Sky Broadband Everyday | ADSL-2 | up to 10 MBPS / up to 600 Kbps | | Pound | 10 | \$15.36 | | 11.25 line rental from BT | 0 | no | 12 months | no | 10 GB | www.sky.com |
| | Bbox B | Entrant | | Sky Broadband Everyday with Sky Talk | ADSL-2 | up to 10 MBPS / up to 600 Kbps | | Pound | 5 | \$7.68 | | 11.00 monthly line rental from Sky | 0 | yes - bb & phone | 12 months | no | 10 GB | www.sky.com |
| | Bbox B | Entrant | | Sky Broadband Unlimited | ADSL-2 | up to 20 MBPS / up to 1.5 MBPS | | Pound | 15 | \$23.04 | | 11.25 monthly line rental from BT | 0 | no | 12 months | no | unlimited | www.sky.com |
| United Kingdom | Bbox B | Entrant | | Sky Broadband Unlimited with Sky Talk | ADSL-2 | up to 20 MBPS / up to 1.5 MBPS | | Pound | 10 | \$15.36 | | 11.00 monthly line rental from Sky | 0 | yes - bb & phone | 12 months | no | unlimited | www.sky.com |
| | Bbox B | Entrant | | Sky Broadband Connected | wireless (from BT, 44% of country) | up to 8 MBPS / up to 440 Kbps | unfavailable | Pound | 17 | \$26.11 | | 11.25 monthly line rental from BT | 0 | no | 12 months | no | subject to traffic management | www.sky.com |
| United Kingdom | TalkTalk | Entrant | | Essentials | ADSL | up to 8 MBPS | where available (60% of country) | Pound | 6.49 | \$9.97 | 29.99 (self-install) | 29.99 (self-install) | 0 | yes - phone included (11 line rental) | 18 months | no | 40 GB | www.talktalk.co.uk |
| United Kingdom | Virgin Media | Entrant | 21% | Broadband L | | up to 10 MBPS | | Pound | 5 | \$7.68 | 30 standard or 15 (self-install) | 11.00 Virgin line rental | 0 | yes - phone included (11 line rental) | 12 months | no | unlimited | www.virginmedia.com |

| Country | Broadband Service Provider | Competition Status | Share of Retail Fixed Broadband Access Market* | Broadband Service Offerings Name / Description | Type of Technology | Broadband Speed (download/upload) | Availability of Broadband Services Offerings (Community or National Level) | Foreign Currency | Monthly Charge (in Foreign Currency) | Monthly Charge (in USD, PPP (Purchasing Power Parity)) | Installation (Connection) Charge | Additional Charges including Line Rental/ Leasing Charge | Modem Rental Charge | Broadband Bundled part of Double Play/ Triple Play ? | Length of Service Contract | Promotional Price | Usage Limit | Broadband Provider's URL |
|---------|----------------------------|--------------------|--|---|--------------------|-----------------------------------|--|------------------|--------------------------------------|--|--|--|-----------------------|--|----------------------------|---|-------------|--|
| | Virgin Media | Entrant | | Broadband XL | | up to 20 MBPS | | Pound | 10 | \$15.36 | 30 standard or 15 quickstart self-install/rental | 11 Virgin line rental (monthly) | 0 yes- phone included | | 12 months | in ombs, 12.00 thereafter (+11 line rental) | unlimited | www.virginmedia.com |
| | Virgin Media | Entrant | | Broadband XXL TV and phone, purchased on-line, get free installation and | | up to 50 MBPS | | Pound | 18 | \$27.65 | 30 standard | 20 activation fee, 11 Virgin line rental (monthly) | 0 yes- phone included | | 12 months | in ombs, 28 thereafter (+11 line rental) | unlimited | www.virginmedia.com |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

*Includes DSL, Cable, Wireless Local Loop, and Public WiFi access. Data for EU countries as of July 2008. ** As of February 2008

Purchasing power parities (PPP) conversion factor, local currency unit to international dollar

| Id | Country | 2007 |
|-----------|-------------------------------------|-------------|
| 4 | Afghanistan | 19.049 |
| 8 | Albania | 55.368 |
| 12 | Algeria | 38.729 |
| 24 | Angola | 83.244 |
| 28 | Antigua and Barbuda | |
| 32 | Argentina | 1.538 |
| 51 | Armenia | 198.516 |
| 36 | Australia | 1.468 |
| 40 | Austria | 0.875 |
| 31 | Azerbaijan | 0.421 |
| 44 | Bahamas | 0.875 |
| 48 | Bahrain | 0.29 |
| 50 | Bangladesh | 27.971 |
| 52 | Barbados | 1.504 |
| 112 | Belarus | 830.285 |
| 56 | Belgium | 0.917 |
| 84 | Belize | 1.471 |
| 204 | Benin | 272.49 |
| 64 | Bhutan | 19.205 |
| 68 | Bolivia | 2.745 |
| 70 | Bosnia and Herzegovina | 0.875 |
| 72 | Botswana | 3.808 |
| 76 | Brazil | 1.598 |
| 96 | Brunei Darussalam | |
| 100 | Bulgaria | 0.785 |
| 854 | Burkina Faso | 233.116 |
| 108 | Burundi | 468.993 |
| 116 | Cambodia | 1686.366 |
| 120 | Cameroon | 294.262 |
| 124 | Canada | 1.231 |
| 132 | Cape Verde | 81.007 |
| 140 | Central African Republic | 311.853 |
| 148 | Chad | 303.409 |
| 152 | Chile | 393.847 |
| 156 | China | 4.091 |
| 344 | China, Hong Kong Special Administra | 7.094 |
| 446 | China, Macao Special Administrative | 6.724 |
| 170 | Colombia | 1234.298 |
| 174 | Comoros | |
| 178 | Congo | 375.613 |
| 188 | Costa Rica | 320.293 |
| 384 | Cote d'Ivoire | 320.387 |
| 191 | Croatia | 4.439 |
| 196 | Cyprus | 0.446 |
| 203 | Czech Republic | 14.951 |
| 180 | Democratic Republic of the Congo | 393.79 |
| 208 | Denmark | 8.849 |
| 262 | Djibouti | |

| | | |
|-----|----------------------------------|----------|
| 212 | Dominica | 1.781 |
| 214 | Dominican Republic | 21.935 |
| 218 | Ecuador | 0.497 |
| 818 | Egypt | 2.242 |
| 222 | El Salvador | 0.564 |
| 226 | Equatorial Guinea | |
| 232 | Eritrea | |
| 233 | Estonia | 9.655 |
| 231 | Ethiopia | 3.412 |
| 242 | Fiji | 1.566 |
| 246 | Finland | 1.057 |
| 250 | France | 0.934 |
| 266 | Gabon | 432.803 |
| 270 | Gambia | |
| 268 | Georgia | 0.882 |
| 276 | Germany | 0.889 |
| 288 | Ghana | 0.518 |
| 300 | Greece | 0.771 |
| 308 | Grenada | 2.08 |
| 320 | Guatemala | 4.846 |
| 324 | Guinea | |
| 624 | Guinea-Bissau | 285.593 |
| 328 | Guyana | 118.568 |
| 332 | Haiti | 22.382 |
| 340 | Honduras | 10.275 |
| 348 | Hungary | 143.308 |
| 352 | Iceland | 111.962 |
| 356 | India | 16.537 |
| 360 | Indonesia | 4753.084 |
| 364 | Iran (Islamic Republic of) | 3355.031 |
| 368 | Iraq | |
| 372 | Ireland | 1.074 |
| 376 | Israel | 3.959 |
| 380 | Italy | 0.896 |
| 388 | Jamaica | 48.472 |
| 392 | Japan | 134.343 |
| 400 | Jordan | 0.52 |
| 398 | Kazakhstan | 73.603 |
| 404 | Kenya | 38.672 |
| 296 | Kiribati | |
| 410 | Korea, Republic of | 872.006 |
| 414 | Kuwait | 0.286 |
| 417 | Kyrgyzstan | 14.238 |
| 418 | Lao People's Democratic Republic | 3934.089 |
| 428 | Latvia | 0.398 |
| 422 | Lebanon | |
| 426 | Lesotho | 3.698 |
| 430 | Liberia | |
| 434 | Libyan Arab Jamahiriya | |
| 440 | Lithuania | 1.776 |
| 442 | Luxembourg | 0.969 |
| 450 | Madagascar | 870.453 |

| | |
|--------------------------------------|----------|
| 454 Malawi | 65.965 |
| 458 Malaysia | 2.105 |
| 462 Maldives | 10.189 |
| 466 Mali | 280.966 |
| 470 Malta | 0.272 |
| 478 Mauritania | 134.871 |
| 480 Mauritius | 19.787 |
| 484 Mexico | 7.848 |
| 583 Micronesia, Federated States of | |
| 496 Mongolia | 563.982 |
| 499 Montenegro | 0.511 |
| 504 Morocco | 5.471 |
| 508 Mozambique | 13.412 |
| 104 Myanmar | 406.421 |
| 516 Namibia | 5.348 |
| 524 Nepal | 28.447 |
| 528 Netherlands | 0.892 |
| 554 New Zealand | 1.585 |
| 558 Nicaragua | 8.336 |
| 562 Niger | 252.032 |
| 566 Nigeria | 84.426 |
| 578 Norway | 9.609 |
| 512 Oman | 0.294 |
| 586 Pakistan | 22.653 |
| 591 Panama | 0.612 |
| 598 Papua New Guinea | 1.641 |
| 600 Paraguay | 2374.887 |
| 604 Peru | 1.617 |
| 608 Philippines | 24.873 |
| 616 Poland | 2.078 |
| 620 Portugal | 0.729 |
| 634 Qatar | 4.362 |
| 498 Republic of Moldova | 5.762 |
| 642 Romania | 1.767 |
| 643 Russian Federation | 15.079 |
| 646 Rwanda | 264.84 |
| 659 Saint Kitts and Nevis | 2.307 |
| 662 Saint Lucia | 1.876 |
| 670 Saint Vincent and the Grenadines | 1.851 |
| 882 Samoa | 1.933 |
| 678 Sao Tome and Principe | |
| 682 Saudi Arabia | 2.911 |
| 686 Senegal | 303.638 |
| 688 Serbia | 37.38 |
| 690 Seychelles | 4.448 |
| 694 Sierra Leone | 1608.418 |
| 702 Singapore | 1.425 |
| 703 Slovakia | 18.493 |
| 705 Slovenia | 0.672 |
| 90 Solomon Islands | 4.421 |
| 710 South Africa | 4.826 |
| 724 Spain | 0.797 |

| | |
|---|----------|
| 144 Sri Lanka | 48.064 |
| 736 Sudan | 1.346 |
| 740 Suriname | 2.052 |
| 748 Swaziland | |
| 752 Sweden | 9.363 |
| 756 Switzerland | 1.787 |
| 760 Syrian Arab Republic | 26.544 |
| 762 Tajikistan | 1.087 |
| 764 Thailand | 17.598 |
| 807 The former Yugoslav Republic of Mac | 22.848 |
| 626 Timor-Leste | 0.53 |
| 768 Togo | 274.38 |
| 776 Tonga | 1.393 |
| 780 Trinidad and Tobago | 5.079 |
| 788 Tunisia | 0.707 |
| 792 Turkey | 1.104 |
| 795 Turkmenistan | |
| 800 Uganda | 794.308 |
| 804 Ukraine | 1.982 |
| 784 United Arab Emirates | |
| 826 United Kingdom | 0.651 |
| 834 United Republic of Tanzania | 521.6 |
| 840 United States | 1 |
| 858 Uruguay | 16.588 |
| 860 Uzbekistan | |
| 548 Vanuatu | 69.307 |
| 862 Venezuela | 1.59 |
| 704 Viet Nam | 6520.248 |
| 887 Yemen | 114.001 |
| 894 Zambia | 3216.006 |

Source United Nations Statistics Millennium Indicators.

APPENDIX D: Demographics Dataset

| Community | % Households with broadband | Population Total | Population density (avg population per square meter) | GDP total (US\$m), PPP (purchasing power parity) | GDP per cap, PPP (purchasing power parity) | Education (% of labor force with tertiary education) |
|---|-----------------------------|------------------|--|--|--|--|
| ALA0 Australia | 52 | 20406696 | 3 | 646550 | 31923 | 16 |
| ALA1 New South Wales | 53 | 6755953 | 8 | 216541 | 32381 | 23 |
| ALA2 Victoria | 51 | 5051670 | 22 | 162155 | 32658 | 34 |
| ALA3 Queensland | 54 | 4005768 | 2 | 115084 | 29418 | 33 |
| ALA4 South Australia | 42 | 1552766 | 2 | 44374 | 29022 | 28 |
| ALA5 Western Australia | 54 | 2017329 | 1 | 73933 | 37321 | 27 |
| ALA6 Tasmania | 39 | 486495 | 7 | 12704 | 26429 | 31 |
| ALA7 Northern Territory | 55 | 206584 | 0 | 8197 | 40802 | 25 |
| ALA8 Australian Capital Territory | 68 | 330131 | 141 | 13561 | 41921 | 31 |
| AT0 Austria | 54 | 8236226 | 99 | 280813 | 34413 | |
| AT11 Burgenland (A) | 57 | 278766 | 70 | 6548 | 51258 | 18 |
| AT12 Niederösterreich | 52 | 1575509 | 82 | 42970 | 27538 | 13 |
| AT13 Wien | 61 | 1638939 | 4060 | 77032 | 47456 | 17 |
| AT21 Kärnten | 47 | 560096 | 59 | 16254 | 29300 | 25 |
| AT22 Steiermark | 52 | 1199807 | 74 | 35299 | 29705 | 17 |
| AT31 Oberösterreich | 54 | 1399139 | 118 | 45405 | 32766 | 17 |
| AT32 Salzburg | 54 | 527184 | 75 | 19911 | 38134 | 16 |
| AT33 Tirol | 53 | 694609 | 56 | 24475 | 35577 | 18 |
| AT34 Vorarlberg | 53 | 362177 | 143 | 12920 | 36018 | 15 |
| BE0 Belgium | 60 | 10478618 | 346 | 335971 | 33400 | 35 |
| BE1 Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest | 56 | 1012777 | 6291 | 64474 | 66345 | 46 |
| BE21 Prov. Antwerpen | 64 | 6060881 | 454 | 192670 | 33130 | 35 |
| BE3 Région Wallonne | 52 | 3404960 | 203 | 78827 | 24127 | 33 |
| BG0 Bulgaria | 15 | 7739900 | 69.7 | 48167 | 6223 | |
| BG1 Severna Bulgaria (SRE 2005) | 12 | 4056987 | 59.4 | 21259 | 5240 | No Data |
| BG11 Severozapaden (SRE 2005) | 12 | 966326 | 50.7 | 4578 | 4737 | No Data |
| BG12 Severen tsentralen (SRE 2005) | 12 | 954078 | 63.7 | 4656 | 4880 | No Data |
| BG13 Severoiztochen (SRE 2005) | 12 | 999250 | 69 | 5402 | 5407 | No Data |
| BG2 Yuzhna Bulgaria (SRE 2005) | 17 | 3682913 | 86.3 | 26907 | 7306 | No Data |
| BG21 Yugozapaden (SRE 2005) | 25 | 2116835 | 104.2 | | | No Data |

| Community | % Households with broadband | Population Total | Population density (avg population per square meter) | GDP total (US\$m), PPP (purchasing power parity) | GDP per cap, PPP (purchasing power parity) | Education (% of labor force with tertiary education) |
|--|-----------------------------|------------------|--|--|--|--|
| BG22 Yuzhen tsentralen (SRE 2005) | 11 | 1566078 | 70 | 7422 | 4739 | No Data |
| BG23 Yugoiztochen (SRE 2005) | 11 | 1137334 | 57.4 | 6623 | 5824 | No Data |
| Canada | 88 | 32299496 | 4 | 34,975 | 34,446 | .. |
| CA1 Newfoundland And Labrador | 93 | 513962 | 1 | 24,860 | 27,588 | 36 |
| CA2 Prince Edward Island | 78 | 138176 | 24 | 26,493 | 29,670 | 48 |
| CA3 Nova Scotia | 88 | 936130 | 18 | 35,275 | 29,250 | 46 |
| CA4 New Brunswick | 82 | 751481 | 11 | 35,704 | 54,913 | 45 |
| CA5 Quebec | 84 | 7597768 | 6 | 32,676 | 40,270 | 48 |
| CA6 Ontario | 87 | 12558669 | 14 | 59,346 | 30,066 | 55 |
| CA7 Manitoba | 89 | 1174148 | 2 | 46,152 | 27,233 | 44 |
| CA8 Saskatchewan | 87 | 989957 | 2 | 23,705 | 26,910 | 37 |
| CA9 Alberta | 91 | 3277582 | 5 | 26,313 | 24,422 | 44 |
| CA10 British Columbia | 93 | 4257833 | 5 | 25,711 | 23,632 | 46 |
| CA11 Yukon Territory | | 31121 | 0 | 24,462 | 27,757 | .. |
| CA12 Northwest Territories And Nunavut | | 72669 | 0 | 25,411 | 26,963 | .. |
| Chile | 28 | 16438892 | 21.7 | | 4618 | |
| CI Tarapaca(a) | 36 | 477864 | 8.1 | No Data | 4480 | No Data |
| CII Antofagasta | 44 | 550087 | 4.3 | No Data | 4887 | No Data |
| CIII Atacama | 22 | 273122 | 3.6 | No Data | 4185 | No Data |
| CIV Coquimbo | 18 | 679665 | 16.7 | No Data | 3869 | No Data |
| CV Valparai(i)so | 28 | 1685333 | 102.6 | No Data | 4295 | No Data |
| CVI O'Higgins | 14 | 850172 | 51.8 | No Data | 3856 | No Data |
| CVII Maule | 12 | 976920 | 32.2 | No Data | 3016 | No Data |
| CVIII Bio-Bio | 20 | 1983883 | 53.5 | No Data | 3668 | No Data |
| CIX Araucania | 21 | 938436 | 29.4 | No Data | 3179 | No Data |
| CX Los Lagos | 23 | 1170798 | 17.4 | No Data | 3505 | No Data |
| CXI Aisen | 2 | 100818 | 0.9 | No Data | 5245 | No Data |
| CXII Magallanes y Anta(a) | 21 | 156667 | 1.2 | No Data | 5417 | No Data |
| CRMS Metropolitana de S | 38 | 6595129 | 429 | No Data | 5775 | No Data |
| Cyprus | 33 | 757795 | 81.9 | 12470 | 16457 | |
| CZ0 Czech Republic | 36 | 10220432 | 132 | 207552 | 20755 | 14 |
| CZ01 Praha | 53 | 1170867 | 2414 | 49904 | 43374 | 28 |
| CZ02 Strední Cechy | 37 | 1143938 | 106 | 21486 | 19080 | 11 |
| CZ03 Jihozápad | 34 | 1175887 | 69 | 21807 | 18934 | 11 |
| CZ04 Severozápad | 26 | 1125877 | 133 | 18195 | 16501 | 8 |
| CZ05 Severovýchod | 37 | 1480627 | 121 | 25463 | 17566 | 11 |
| CZ06 Jihovýchod | 36 | 1639978 | 119 | 29578 | 18427 | 15 |
| CZ07 Strední Morava | 33 | 1228082 | 135 | 19466 | 16181 | 13 |

| Community | % Households with broadband | Population Total | Population density (avg population per square meter) | GDP total (US\$m), PPP (purchasing power parity) | GDP per cap, PPP (purchasing power parity) | Education (% of labor force with tertiary education) |
|----------------------------|-----------------------------|------------------|--|--|--|--|
| CZ08 Moravskoslezsko | 33 | 1255178 | 236 | 21654 | 17679 | 12 |
| DK0 Denmark | 74 | 5404426 | 125 | 174582 | 32750 | 32 |
| DK01 Hovedstaden | 78 | 1824905 | 712 | 71872 | 39878 | 38 |
| DK02 Sjælland | 71 | 609144 | 84 | 14727 | 24467 | 24 |
| DK03 Syddanmark | 72 | 2970377 | 89 | 87983 | 29995 | 29 |
| DK04 Midtjylland | 76 | No Data | No Data | No Data | No Data | No Data |
| DK05 Nordjylland | 67 | No Data | No Data | No Data | No Data | No Data |
| Estonia | 54 | 1346097 | 31 | 14896 | 11066 | |
| FI0 Finland+A75 | 66 | 5246096 | 17 | 159737 | 30897 | 34 |
| FI1 Manner-Suomi | 66 | 665626 | 10 | 15321 | 22928 | 29 |
| FI13 Itä-Suomi | 60 | No Data | No Data | No Data | No Data | No Data |
| FI18 Etelä-Suomi | 68 | 2588312 | 63 | 90730 | 35774 | 36 |
| FI19 Länsi-Suomi | 67 | 1332332 | 23 | 35998 | 27373 | 32 |
| FI1A Pohjois-Suomi | 64 | 633178 | 5 | 16694 | 26641 | 32 |
| FI20 Åland | 64 | 26648 | 17 | 994 | 37480 | 23 |
| France | 57 | 60825000 | 112 | 1830532 | 30725 | 27 |
| FR1 Île de France | 64 | 11445144 | 953 | 523138 | 45708 | 40 |
| FR2 Bassin Parisien | 52 | 10601707 | 73 | 274605 | 25902 | 21 |
| FR3 Nord - Pas-de-Calais | 52 | 4037562 | 325 | 94730 | 23462 | 24 |
| FR4 Est | 50 | 5292080 | 110 | 137217 | 25929 | 23 |
| FR5 Ouest | 54 | 8194093 | 95 | 216154 | 26705 | 25 |
| FR6 Sud-Ouest | 49 | 6559135 | 63 | 173562 | 26461 | 26 |
| FR7 Centre-Est | 52 | 7313840 | 105 | 211997 | 28986 | 26 |
| FR8 Méditerranée | 57 | 7552355 | 112 | 199128 | 26366 | 26 |
| DE0 Germany | 55 | 82469422 | 231 | 2510750 | 30775 | 25 |
| DE1 Baden-Württemberg | 56 | 10726560 | 300 | 365121 | 34465 | 26 |
| DE2 Bayern | 58 | 12456310 | 177 | 446412 | 36287 | 24 |
| DE3 Berlin | 58 | 3391509 | 3803 | 88355 | 26378 | 35 |
| DE4 Brandenburg | 38 | 2563594 | 87 | 53854 | 21270 | 29 |
| DE5 Bremen | | 663340 | 1641 | 27544 | 42043 | 22 |
| DE6 Hamburg | 55 | 1739229 | 2303 | 92922 | 54096 | 26 |
| DE7 Hessen | 55 | 6095060 | 289 | 224718 | 37331 | 27 |
| DE8 Mecklenburg-Vorpommern | 43 | 1713460 | 74 | 35482 | 20968 | 24 |
| DE9 Niedersachsen | 58 | 7997428 | 168 | 214288 | 27130 | 20 |
| DEA Nordrhein-Westfalen | 60 | 18066729 | 530 | 545758 | 30586 | 22 |
| DEB Rheinland-Pfalz | 58 | 4059974 | 205 | 109558 | 27323 | 22 |
| DEC Saarland | | 1053355 | 410 | 30703 | 29513 | 20 |
| DED Sachsen | 42 | 4285019 | 233 | 95392 | 22541 | 31 |
| DEE Sachsen-Anhalt | 40 | 2482077 | 121 | 54018 | 22036 | 24 |

| Community | % Households with broadband | Population Total | Population density (avg population per square meter) | GDP total (US\$m), PPP (purchasing power parity) | GDP per cap, PPP (purchasing power parity) | Education (% of labor force with tertiary education) |
|---------------------------------------|-----------------------------|------------------|--|--|--|--|
| DEF Schleswig-Holstein | 55 | 2830855 | 180 | 76783 | 27464 | 21 |
| DEG Thüringen | 48 | 2344928 | 145 | 49841 | 21521 | 28 |
| GR0 Greece | 22 | 11103966 | 85 | 282839 | 25748 | 23 |
| GR1 Voreia Ellada | 16 | 3554803 | 63 | 70039 | 19954 | 22 |
| GR2 Kentriki Ellada | 13 | 2453970 | 46 | 50502 | 20842 | 17 |
| GR3 Attiki | 34 | 3987619 | 1048 | 138139 | 35084 | 29 |
| GR4 Nisia Aigaiou, Kriti | 18 | 1107574 | 63 | 24161 | 22092 | 18 |
| Hong Kong, China SAR | 70 | 7008900 | 6460 | 219,255 | 43960 | 0 |
| HU0 Hungary | 42 | 10087065 | 108 | 171,624 | 17014 | 20 |
| HU1 Közép-Magyarország | 51 | 2848321 | 412 | 79,090 | 27767 | 29 |
| HU2 Dunántúl | 40 | 3083839 | 84 | 46,118 | 14955 | 15 |
| HU3 Alföld és Észak | 37 | 4154906 | 84 | 46,415 | 11171 | 17 |
| Iceland | 83 | 299404 | 3 | | | |
| IT0 Italy | 31 | 58607043 | 199 | 1626326 | 28172 | 14 |
| ITC1 Piemonte | 29 | 4335953 | 174 | 131720 | 30841 | 13 |
| ITC2 Valle d'Aosta/Vallée d'Aoste | 25 | 123423 | 38 | 4025 | 33110 | 12 |
| ITC3 Liguria | 30 | 1601222 | 300 | 45631 | 28931 | 17 |
| ITC4 Lombardia | 36 | 9434147 | 414 | 340894 | 36684 | 14 |
| ITD1 Provincia Autonoma Bolzano-Bozen | 32 | 479859 | 65 | 17365 | 36739 | 11 |
| ITD2 Provincia Autonoma Trento | 35 | 500012 | 81 | 16244 | 32981 | 14 |
| ITD3 Veneto | 32 | 4719132 | 269 | 154480 | 33233 | 13 |
| ITD4 Friuli-Venezia Giulia | 33 | 1206498 | 160 | 37591 | 31632 | 15 |
| ITD5 Emilia-Romagna | 38 | 4169463 | 194 | 141380 | 34425 | 15 |
| ITE1 Toscana | 30 | 3609071 | 159 | 109147 | 30703 | 15 |
| ITE2 Umbria | 30 | 863408 | 105 | 22515 | 26473 | 15 |
| ITE3 Marche | 31 | 1523795 | 159 | 42134 | 28072 | 15 |
| ITE4 Lazio | 38 | 5287375 | 313 | 179137 | 34396 | 19 |
| ITF1 Abruzzo | 26 | 1302290 | 122 | 29354 | 22883 | 17 |
| ITF2 Molise | 18 | 321430 | 74 | 6611 | 20880 | 15 |
| ITF3 Campania | 27 | 5789958 | 432 | 102523 | 17976 | 14 |
| ITF4 Puglia | 24 | 4069843 | 212 | 73402 | 18310 | 12 |
| ITF5 Basilicata | 22 | 595316 | 61 | 11711 | 19971 | 13 |
| ITF6 Calabria | 19 | 2006842 | 136 | 35873 | 18147 | 15 |
| ITG1 Sicilia | 22 | 5015147 | 197 | 89511 | 18120 | 13 |

| Community | % Households with broadband | Population Total | Population density (avg population per square meter) | GDP total (US\$m), PPP (purchasing power parity) | GDP per cap, PPP (purchasing power parity) | Education (% of labor force with tertiary education) |
|---------------------------------|-----------------------------|------------------|--|--|--|--|
| ITG2 Sardegna | 27 | 1652865 | 69 | 35077 | 21545 | 11 |
| KR0: Korea | 73 | 48138077 | 483.99 | 1033424 | 22408 | 32 |
| KR01: Capital region | 75 | 23202135 | 1982.2 | 489717 | 21809 | 38 |
| KR02: Gyeongnam region | 69 | 7764293 | 629.62 | 178059 | 36214 | 35 |
| KR03: Gyeonbuk region | 68 | 5158051 | 259.08 | 107232 | 21809 | 34 |
| KR04: Jeolla region | 69 | 5112577 | 248.93 | 105058 | 21633 | 24 |
| KR05: Chungcheong region | 78 | 4870989 | 294.18 | 115354 | 24626 | 22 |
| KR06: Gangwon region | 68 | 1488365 | 89.81 | 27969 | 19735 | 28 |
| KR07: Jeju | 63 | 541667 | 293.38 | 10035 | 19277 | 31 |
| JP0 Japan | 58 | 127769000 | 347.11 | 3984241 | 31680 | |
| JPA Hokkaido | 46 | 5628000 | 72.13 | 152384 | 27509 | No Data |
| JPB Tohoku | 47 | 9635000 | 144.88 | 255000 | 26478 | No Data |
| JPC Kanto | 69 | 48368000 | 918.72 | 1686926 | 31574 | No Data |
| JPD Hokuriku | 57 | 5539000 | 169.27 | 170010 | 31529 | No Data |
| JPE Toukai | 64 | 11229000 | 618.41 | 391869 | 32678 | No Data |
| JPF Kinki | 65 | 20893000 | 796.47 | 622757 | 28649 | No Data |
| JPG Chugoku | 52 | 7676000 | 244.07 | 229706 | 29107 | No Data |
| JPH Shikoku | 47 | 4086000 | 219.11 | 104259 | 25854 | No Data |
| JPI Kyushu | 47 | 13353000 | 322.04 | 343490 | 25624 | No Data |
| JPJ Okinawa | 45 | 1362000 | 605.87 | 27840 | 20772 | No Data |
| Latvia | 40 | 2300512 | 36.9 | 20227 | 8792 | |
| Lithuania | 43 | 3414304 | 54.5 | 32682 | 9572 | |
| Luxembourg (Grand-Duché) | 61 | 457250 | 177 | 32557 | 71772 | 30 |
| Malta | 55 | 403507 | 1278.6 | 5707 | 14143 | |
| NL0 Netherlands | 74 | 16319868 | 483 | 566596 | 35342 | 30 |
| NL1 Noord-Nederland | 72 | 1701086 | 204 | 56131 | 33596 | 26 |
| NL2 Oost-Nederland | 74 | 3453595 | 355 | 100565 | 29647 | 27 |
| NL3 West-Nederland | 76 | 7617219 | 879 | 290674 | 38853 | 33 |
| NL4 Zuid-Nederland | 71 | 3547969 | 502 | 119227 | 34214 | 27 |
| NO0 Norway | 73 | 4623291 | 15 | 220101 | 48232 | 33 |
| NO01 Oslo og Akershus | 76 | 1031800 | 206 | 70858 | 69575 | 45 |
| NO02 Hedmark og Oppland | 76 | 371633 | 7 | 13653 | 37221 | 25 |
| NO03 Sør-Østlandet | 73 | 891458 | 26 | 34244 | 38918 | 28 |
| NO04 Agder og Rogaland | 66 | 660986 | 28 | 30540 | 46810 | 29 |
| NO05 Vestlandet | 69 | 802152 | 17 | 36935 | 46649 | 29 |
| NO06 Trøndelag | 78 | 402554 | 10 | 16380 | 41225 | 33 |
| NO07 Nord-Norge | 74 | 462710 | 4 | 17490 | 38296 | 29 |

| Community | % Households with broadband | Population Total | Population density (avg population per square meter) | GDP total (US\$m), PPP (purchasing power parity) | GDP per cap, PPP (purchasing power parity) | Education (% of labor force with tertiary education) |
|--------------------------------------|-----------------------------|------------------|--|--|--|--|
| PL0 Poland | 38 | 38141271 | 122 | 517957 | 13571 | 69 |
| PL1 Centralny | 38 | 7734447 | 144 | 142923 | 18479 | 65 |
| PL2 Poludniowy | 38 | 7956467 | 289 | 106504 | 13386 | 72 |
| PL3 Wschodni | 33 | 6768410 | 90 | 65007 | 9604 | 67 |
| PL4 Północno-Zachodni | 42 | 6072555 | 91 | 82594 | 13601 | 72 |
| PL5 Poludniowo-Zachodni | 38 | 3940113 | 134 | 52332 | 13282 | 71 |
| PL6 Północny | 39 | 5693456 | 94 | 68597 | 12048 | 71 |
| PT0 Portugal | 39 | 10549424 | 115 | 210643 | 20054 | 13 |
| PT11 Norte | 36 | 3732551 | 175 | 59123 | 15909 | 10 |
| PT15 Algarve | 44 | 414158 | 83 | 8725 | 21159 | 14 |
| PT16 Centro (PT) | 31 | 2379529 | 84 | 40189 | 16963 | 9 |
| PT17 Lisboa | 50 | 2769897 | 944 | 77983 | 28276 | 22 |
| PT18 Alentejo | 34 | 766825 | 24 | 14206 | 18607 | 10 |
| PT30 Região Autónoma da Madeira (PT) | 41 | 244742 | 296 | 6149 | 25235 | 11 |
| PT20 Região Autónoma dos Açores (PT) | 39 | No Data | No Data | No Data | No Data | No Data |
| RO0 Romania | 13 | 21634371 | 94.1 | 211269 | 9765 | |
| RO1 Macroregiunea unu | 14 | 5269828 | 78.2 | 49369 | 9368 | No Data |
| RO11 Nord-Vest | 13 | 2735929 | 81.3 | 25098 | 9173 | No Data |
| RO12 Centru | 14 | 2533900 | 75 | 24271 | 9579 | No Data |
| RO2 Macroregiunea doi | 13 | 6582021 | 97.8 | 48305 | 7339 | No Data |
| RO21 Nord-Est | 9 | 3735229 | 103.4 | 24306 | 6507 | No Data |
| RO22 Sud-Est | 17 | 2846792 | 91.3 | 23999 | 8430 | No Data |
| RO3 Macroregiunea trei | 16 | 5542528 | 157.5 | 74612 | 13462 | No Data |
| RO31 Sud - Muntenia | 12 | 3329794 | 99.6 | 27083 | 8133 | No Data |
| RO32 Bucuresti - Ilfov | 21 | 2212735 | 1259.4 | 47529 | 21480 | No Data |
| RO4 Macroregiunea patru | 10 | 4239994 | 70.6 | 38983 | 9194 | No Data |
| RO41 Sud-Vest Oltenia | 11 | 2307868 | 81 | 17688 | 7664 | No Data |
| RO42 Vest | 10 | 1932126 | 61.2 | 21295 | 11022 | No Data |
| Singapore | 86 | 4839400 | 6814 | 127666 | 23288 | |
| SK0 Slovakia | 35 | 5387001 | 110 | 86375 | 16138 | 15 |
| SK01 Bratislavský kraj | 39 | 602416 | 293 | 23589 | 39410 | 29 |
| SK02 Západné Slovensko | 35 | 1863498 | 124 | 28152 | 15204 | 12 |

| Community | % Households with broadband | Population Total | Population density (avg population per square meter) | GDP total (US\$m), PPP (purchasing power parity) | GDP per cap, PPP (purchasing power parity) | Education (% of labor force with tertiary education) |
|--------------------------------------|-----------------------------|------------------|--|--|--|--|
| SK03 Stredné Slovensko | 37 | 1352190 | 83 | 16712 | 12439 | 15 |
| SK04 Východné Slovensko | 33 | 1568898 | 100 | 17922 | 11497 | 11 |
| Slovenia | 50 | 2000474 | 99.3 | 31643 | 15818 | |
| ES0 Spain | 45 | 43733217 | 86.43 | 1183478 | 27280 | 31 |
| ES11 Galicia | 32 | 2717865 | 91.9 | 60524 | 22470 | 31 |
| ES12 Principado de Asturias | 48 | 1058317 | 99.8 | 25280 | 24071 | 37 |
| ES13 Cantabria | 49 | 557169 | 104.71 | 14800 | 26922 | 35 |
| ES21 Pais Vasco | 44 | 2113130 | 292.11 | 73035 | 34923 | 47 |
| ES22 Comunidad Foral de Navarra | 44 | 588158 | 56.6 | 20003 | 34501 | 40 |
| ES23 La Rioja | 45 | 300422 | 59.55 | 8669 | 29368 | 32 |
| ES24 Aragón | 45 | 1258543 | 26.37 | 36286 | 29237 | 34 |
| ES30 Comunidad de Madrid | 58 | 5933470 | 739.1 | 208499 | 35747 | 38 |
| ES41 Castilla y León | 35 | 2476605 | 26.28 | 63496 | 25881 | 32 |
| ES42 Castilla-la Mancha | 36 | 1891896 | 23.81 | 40630 | 21848 | 23 |
| ES43 Extremadura | 35 | 1071293 | 25.73 | 19743 | 18599 | 24 |
| ES51 Cataluña | 53 | 6930046 | 215.8 | 221761 | 32587 | 32 |
| ES52 Comunidad Valenciana | 42 | 4636546 | 199.38 | 114983 | 25310 | 28 |
| ES53 Illes Balears | 50 | 984917 | 197.3 | 29269 | 30362 | 22 |
| ES61 Andalucía | 39 | 7790300 | 88.93 | 164625 | 21463 | 26 |
| ES62 Región de Murcia | 36 | 1334330 | 117.95 | 30597 | 23407 | 25 |
| ES63 Ciudad Autónoma de Ceuta (ES) | 46 | 71461 | 3761.11 | 1768 | 24970 | 25 |
| ES64 Ciudad Autónoma de Melilla (ES) | 46 | 66886 | 5145.04 | 1613 | 24364 | 33 |
| ES70 Canarias (ES) | 45 | 1951866 | 262.1 | 47897 | 25004 | 27 |
| SE0 Sweden | 71 | 9047752 | 22 | 295876 | 32866 | 29 |
| SE1 Östra Sverige | 69 | 3397736 | 75 | 128550 | 37384 | 33 |
| SE2 Södra Sverige | 74 | 2115604 | 45 | 60834 | 28755 | 27 |
| SE3 Norra Sverige | 67 | 1706231 | 6 | 49542 | 29036 | 25 |
| TW0 Taiwan | 66 | 22958360 | 4881 | 641194 | 28023 | |
| TW1 North | 73 | 10107903 | 4919 | 327435 | 32394 | No Data |
| TW2Central | 59 | 5740700 | 6219 | 134520 | 23433 | No Data |
| TW3 South | 61 | | 4853 | 169874 | 26373 | No Data |
| TW4East | 49 | 94325 | 2731 | 13500 | 23399 | No Data |

| Community | % Households with broadband | Population Total | Population density (avg population per square meter) | GDP total (US\$m), PPP (purchasing power parity) | GDP per cap, PPP (purchasing power parity) | Education (% of labor force with tertiary education) |
|------------------------------|-----------------------------|------------------|--|--|--|--|
| UK0 United Kingdom | 62 | 60227500 | 248 | 1901710 | 33110 | <u>30</u> |
| UKC North East (ENGLAND) | 47 | 2550200 | 297 | 65102 | 26769 | 25 |
| UKD North West (ENGLAND) | 52 | 6837900 | 485 | 188598 | 28922 | 28 |
| UKE Yorkshire and The Humber | 62 | 5105500 | 331 | 139035 | 28556 | 25 |
| UKF East Midlands (ENGLAND) | 66 | 4327600 | 277 | 124968 | 30280 | 26 |
| UKG West Midlands (ENGLAND) | 60 | 5348800 | 412 | 150095 | 29425 | 26 |
| UKH Eastern | 68 | 5560900 | 291 | 167281 | 31544 | 28 |
| UKI London | 65 | 7453500 | 4741 | 365371 | 51402 | 39 |
| UKJ South East | 71 | 8183100 | 429 | 281676 | 36095 | 32 |
| UKK South West (ENGLAND) | 64 | 5084800 | 213 | 150326 | 31001 | 29 |
| UKL Wales | 59 | 2954800 | 143 | 72093 | 25585 | 28 |
| UKM Scotland | 58 | 5095100 | 65 | 152862 | 31460 | 34 |
| UKN Northern Ireland | 42 | 1725300 | 122 | 44302 | 26926 | 27 |

Data Sources:

| | % households with broadband | Population Total | Population density | GDP total | GDP per cap, PPP | Education |
|----------------------|--|----------------------------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|
| Australia | 2008, Australian Bureau of Statistics | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Austria | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Belgium | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Bulgaria | 2007, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | |
| Canada | 2007, Statistics Canada | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Chile | 2007, Subtel; INE, 2006 | 2006, INE | 2006, INE | | INE, World Bank 2006 | |
| Cyprus | 2008, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | |
| Czech | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Denmark | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Estonia | 2008, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | |
| Finland | 2008, Eurostat; for Aland, 2007, Eurostat | 2005, OECD, except Ita-Suomi | 2005, OECD, except Ita-Suomi | 2005, OECD, except Ita-Suomi | 2005, OECD, except Ita-Suomi | 2005, OECD, except Ita-Suomi |
| France | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Germany | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Greece | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Hong Kong, China SAR | 2008, Census and Statistics Dept | 2008, Census and Statistics Dept | 2008, Census and Statistics Dept | 2008, World Bank GNI PPP | 2008, World Bank GNI per cap PPP | 2008, Census and Statistics Dept |
| Hungary | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Iceland | 2008, Eurostat | 2005, OECD | 2005, Eurostat | | | |
| Italy | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Japan | 2008, Broadband, Ministry of Internal Affairs and Communication. Households, based on 2005 census, Japan Statistics Department | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | |

| | % households with broadband | Population Total | Population density | GDP total | GDP per cap, PPP | Education |
|----------------|--|----------------------------|----------------------------|---|---|------------|
| Korea | 2008 Korea Telecom Operators Assn; 2008 National Census Agency | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Latvia | 2008, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | |
| Lithuania | 2008, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | |
| Luxembourg | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Malta | 2008, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | |
| Netherlands | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Norway | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Poland | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Portugal | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Romania | 2008, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | |
| Singapore | 2008, IDA | 2008, Singstat | 2008, Singstat | 2008, Singstat | 2008, Singstat | |
| Slovakia | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Slovenia | 2008, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | 2005, Eurostat | |
| Spain | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Sweden | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |
| Taiwan | 2008, TWINNIC | 2007, Ministry of Interior | 2007, Ministry of Interior | 2007, Urban and Regional Development Statistics, 2007. IMF. | 2007, Urban and Regional Development Statistics, 2007. IMF. | |
| United Kingdom | 2008, Eurostat | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD | 2005, OECD |

APPENDIX E: Market and Regulatory Background

This Appendix contains regulatory, market, and other information for 37 countries. The information and data contained in this Appendix are taken from a variety of sources. Descriptions of the regulatory structure and the state of competition of a particular country are from the web sites of that country's regulator or ministry and from subscription-based services, such as IHS Global Insight, unless otherwise noted. Topography information and the number of radio and television broadcast stations come from the CIA Factbook, unless otherwise noted.¹ Data contained in the tables in this Appendix (*i.e.*, percentage of access to broadband per 100 people, total number of broadband subscribers, and percentages of subscribers to broadband per 100 people (by total and by technology type)) are drawn from the OECD,² unless otherwise noted.

1. Australia

Regulation: The Department of Broadband, Communications and the Digital Economy (DBCDE) is responsible for formulating policy in the telecommunications sector.³ The Australian Communications and Media Authority (ACMA) regulates telecommunications and online content. The ACMA's mandate includes "promoting self-regulation and competition while protecting consumers and other users; fostering an environment in which media respect community standards and respond to audience and user needs; managing access to spectrum; and representing Australia's communications interests internationally."⁴ The Australian Competition and Consumer Commission (ACCC) enforces the economic and competition regulations for telecommunications and other industries. It also regulates interconnection and access to incumbent Telstra's network and sets competitive safeguards.⁵

The ACCC has mandated loop unbundling for Telstra, the incumbent telecommunications company, since 1999. Operators can make their own access agreements with Telstra, though the ACCC can intervene if there are disputes over pricing arrangements. Approximately 10% of Telstra's central offices are capable of supporting loop unbundling for competitors.⁶ Approximately 2221 of Telstra's 5000 exchanges had at least one facilities-based competitor, and 245 exchanges had five or more facilities-based competitors.

In April 2009, Australia announced that it would create a new company (majority owned by the government), to build a national, wholesale only, fiber-to-the-premises (FTTP) broadband network with a goal of providing, by 2018, broadband services to 90% of all Australian homes, schools and workplaces at speeds of 100 Mbps.⁷ The government plans to initially invest AUD4.7 billion (US\$4.2 billion) and up to AUD43 billion (US\$39 billion) total in the wholesale, open access network through the government's Building Australia Fund.⁸ The 10% of the population not reached by the extensive fiber network will be served by other platforms such as terrestrial wireless or satellite, with speeds at least 12 Mbps. The government plans to privatize the network five years after its construction.

¹ See generally, CIA Factbook, available at <https://www.cia.gov/library/publications/the-world-factbook/>.

² See OECD Broadband Portal, Table 2a, (2008) (sources: OECD, ICT database and Eurostat, Community Survey on ICT usage in enterprises, May 2009).

³ See DBCDE, available at <http://www.dbcde.gov.au/>.

⁴ See ACMA, available at <http://www.acma.gov.au/>.

⁵ See ACCC, available at <http://www.accc.gov.au/>.

⁶ See OECD Communications Outlook 2009, at 34 (2009).

⁷ See http://www.budget.gov.au/2009-10/content/bp1/html/bp1_bst1-08.htm.

⁸ See DBCDE, "National Broadband Network: 21st Century Broadband" available at http://www.dbcde.gov.au/broadband/national_broadband_network.

Competition: The four largest ISPs in Australia are Telstra, Optus, iiNet, and Primus Telecommunications.⁹ At the end of June 2009, 57% of broadband connections were digital subscriber line (DSL) technology.¹⁰ This percentage share has decreased since December 2008 when DSL represented 63% of broadband connections. Mobile wireless connections (27%) were the second largest category, followed by the combined category of cable and fiber (13%).¹¹

Other Media: AM (262); FM (345); TV (104).

Topography: Australia occupies an area slightly smaller than the contiguous 48 states of the United States. Australia's population is concentrated along the eastern and southeastern coasts. The terrain is mostly low plateau with deserts and fertile plain in the southeast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 62.0 ¹² | 5,356,000 | 24.9 | 0.0 | 4.3 | 19.4 | 1.2 |

2. Austria

Regulation: The Austrian Regulatory Authority for Broadcasting and Telecommunications (RTR) and the Telecom Control Commission (TKK) share regulatory oversight of the telecommunications market in Austria.¹³ The TKK makes determinations of significant market power and imposes *ex ante* remedies as appropriate. The RTR, which is divided into broadcasting and telecommunications sections, provides technical expertise to and handles all administrative matters on behalf of the TKK. As required under European Union (EU) law, Austria incorporated the 2002 European regulatory framework for communications into its national 2003 Telecommunications Act (TKG 2003).¹⁴

The use of unbundled local loops was mandated under the previous Austrian Telecommunications Act, passed in January 1998. The incumbent, Telekom Austria, is subject to loop unbundling.¹⁵

In 2008, the RTR released its ICT Factbook which outlines areas in which Austria faces gaps in Internet usage based on education and age, and highlights areas in which ICT could be used more broadly, such as health care, culture, security, e-government, research and development and green IT.¹⁶

⁹ See Senator Stephen Conroy, Minister for Broadband, Communications and the Digital Economy, Speech, "Measures to Improve Safety of the Internet for Families" available at <http://www.minister.dbcde.gov.au/media/speeches/2009/075>.

¹⁰ In Appendix C, we include price information for Internode, a competitive entrant offering broadband services via DSL. See Internode website, available at <http://www.internode.on.net>.

¹¹ Australian Bureau of Statistics, "8153.0 - Internet Activity, Australia" (Jun 2009), available at <http://abs.gov.au/ausstats/abs@.nsf/mf/8153.0/>.

¹² Australian Bureau of Statistics, "Household Use of Information Technology" 2008-09 (Feb. 2010) available at [http://www.ausstats.abs.gov.au/Ausstats/subscriber.nsf/0/FC0AC596D2B82A06CA25768D0021C672/\\$File/81460d003_200809.xls#TopOfTable_Table_2](http://www.ausstats.abs.gov.au/Ausstats/subscriber.nsf/0/FC0AC596D2B82A06CA25768D0021C672/$File/81460d003_200809.xls#TopOfTable_Table_2).

¹³ See RTR, available at <http://www.rtr.at/en/rtr/RTRGmbH>; TKK, at <http://www.rtr.at/en/rtr/OrganeTKK>.

¹⁴ See RTR, Legal Framework, available at <http://www.rtr.at/en/tk/Recht>.

¹⁵ CESInfo, DICE Report, available at http://www.cesifo-group.de/portal/page/portal/DICE_Content/INFRASTRUCTURE/COMMUNICATION_NETWORKS/Fixed-line%20Access%20Regulation/Impl-LLU-oecd.pdf.

¹⁶ See <http://www.rtr.at/en/komp/SchriftenreiheNr52008/Volume5-2008.pdf>.

Competition: Telekom Austria, which operates under the eTel brand, is the largest player in Austrian broadband market. There is significant inter-modal competition in the Austrian broadband market. Mobile broadband providers lead, serving 38% of the market, followed by DSL providers (31%), and cable (19%).¹⁷ Competitors include TS-Online, UPC (Liberty Global), Chello (UPC Telekabel), Tele2, UTA, and PCCW (wireless).

Other Media: AM (2); FM (65); TV (10).

Topography: Austria occupies an area slightly smaller than Maine. Austria's population is concentrated on eastern lowlands because of steep slopes, poor soils and low temperatures. The terrain in the west and south is mostly mountains (Alps) and mostly flat or gently sloping along the eastern and northern margins.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 54.5 | 1,821,000 | 21.8 | 0.1 | 6.8 | 14.5 | 0.5 |

3. Belgium

Regulation: National telecommunications goals and policy objectives are set by the Ministère des Communications et de l'Infrastructure.¹⁸ The independent regulator is the Institut Belge des Services Postaux et des Télécommunications (IBPT).¹⁹

Belgium first mandated local-loop unbundling in October 2000,²⁰ but alternative operators have historically used bitstream access to provision DSL services. The guidelines for bitstream access are outlined in the Belgacom Reference Offer Bitstream Access (BROBA) decision and those for local-loop unbundling are set forth under the Belgacom Reference Unbundled Offer (BRUO) decision.

Belgium's broadband strategy, presented in mid-2009, includes plans to improve broadband through mapping, access regulations, tax relief, relief from right of way charges, sharing of inside wiring and public-private partnerships.²¹ One of the primary goals of the strategy is to stimulate fiber and cable deployment. The strategy includes sections on broadband applications such as intelligent transport systems, smart grids, and e-health.

Competition: Belgacom is the incumbent wireline operator. Competitors include Versatel (KPN) (unbundled loops) and Telenet (cable system). Local-loop unbundling is used primarily for the provision of differentiated DSL services. By the end of 2007, there were 38,449 fully unbundled lines in Belgium

¹⁷ See RTR, Telecom Monitor, Appendix available at http://www.rtr.at/en/komp/TKMonitor_4_2009/TM4-2009e.pdf.

¹⁸ See Ministère des Communications et de l'Infrastructure, available at <http://vici.fgov.be/>.

¹⁹ See IBPT, available at <http://www.ibpt.be/>.

²⁰ OECD Paper at 16-17.

²¹ See Quickenom.be, economy and reform, available at http://www.apritel.org/fotos/editor2/Minister_van_Quickenborne.pdf.

with another 19,060 shared access lines. Together, those lines accounted for about 3.5% of all DSL lines in Belgium and 2% of all broadband lines in the country.²² Resellers include Tele2 (KPN).

Other Media: AM (7); FM (79); TV (25).

Topography: Belgium occupies an area about the size of Maryland. Belgium's terrain consists of flat coastal plains in the northwest, central rolling hills, and the rugged mountains of Ardennes Forest in the southeast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 60.3 | 3,041,311 | 38.4 | 0.0 | 11.8 | 16.3 | 0.2 |

4. Bulgaria

Regulation: The Ministry of Transport, Information Technology and Communications (MTITC) is responsible for formulating state policy for telecommunications.²³ The Communications Regulation Commission (CRC), an independent agency established in 2002 in accordance with EU telecommunications requirements, is responsible for approving licenses and frequency, technical, market, and legal regulation. The CRC promotes market competition, enforces license conditions, and promulgates appropriate consumer protection measures. Bulgaria adopted its Electronic Communications Act at the beginning of 2007, following its accession to the EU.²⁴

Bulgaria's National Broadband Strategy for 2010 was approved by its Cabinet in November 2009 and will fund high-speed Internet access in 26 smaller cities (with about 20,000 residents each). Fifty percent of the strategy's projects will be funded through the government's Operational Program for Regional Development; private-sector partners will fund the other 50%. Initially, priority will be given to business investment projects in smaller towns and villages.²⁵ The broadband strategy encourages the use of online administration, medical, legal and educational services.

Competition: The Bulgarian Telecommunications Company (BTC, operating as Vivacom) is the incumbent wireline carrier and the leading provider in the fixed broadband market. Competitors include CableTel/EuroCom (cable system);²⁶ and alternative infrastructure providers Orbitel/SpectrumNet, Net Is Sat, Net1, Nexcom, and Vestitel.²⁷ Nexcom has provided WiMAX-based broadband since January 2007,

²² BIPT, "A Comparative Study by Analysis of Retail Prices for Broadband Internet Connections in Belgium and six other European countries," (March 2007) available at http://bipt.be/en/406/ShowDoc/2265/Communications/A_comparative_study_by_Analysis_of_retail_prices_f.aspx.

²³ See MTICT, available at <http://www.mtite.government.bg/index.php>.

²⁴ See CRC, available at <http://www.crc.bg/index.php?lang=en>;

²⁵ See The Sofia Echo, available at http://sofiaecho.com/2009/11/25/820727_bulgarias-national-broadband-strategy-foresees-government-funded-Internet-in-smaller-cities; MTITC, available at <http://mtitc.government.bg/page.php?category=92&id=3562&seek=broadband>.

²⁶ In Appendix C, we include price information on CableTel and Eurocom separately because we conducted our research prior to the merger of the two companies. See The Sophia Echo, "Sweden's EQT Buys Bulgaria's CableTel, Eurocom in 200M Euro Deal," available at http://sofiaecho.com/2009/10/30/807289_swedens-eqt-buys-bulgarias-cabletel-eurocom-in-200m-euro-deal.

²⁷ In Appendix C, we include price information for Powernet, a competitive entrant offering broadband services via fiber optic and wireless. See Powernet website, available at <http://www.powernet.bg>.

and currently provides coverage to nearly half of Bulgaria's population.²⁸ Vestitel, owned by national gas company Overgas, has deployed fiber-to-the-home (FTTH) infrastructure along its parent company's gas distribution network in the largest cities, and it plans to begin rolling out service in 2011.²⁹

Other Media: AM (31); FM (63); TV (39).

Topography: Bulgaria occupies an area slightly larger than Tennessee. Bulgaria's terrain is mostly made up of mountains with lowlands in the north and southeast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 853, 100 ³⁰ | 27.97 ³¹ | Data N/A | Data N/A | Data N/A | Data N/A |

5. Canada

Regulation: Industry Canada (IC), headed by the Minister of Industry, sets telecommunications and radio communications policy. The IC is also responsible for international submarine cable licensing as well as spectrum policy and management.³² The Canadian Radio-Television and Telecommunications Commission (CRTC) is an independent entity that regulates and supervises the Canadian broadcasting and telecommunications systems. CRTC operates under the provisions of the Telecommunications Act (1991) and the Bell Canada Act (1987), and its mandate is to ensure that the telecommunications systems serve the Canadian public. It, however, does not regulate cell phone company rates, quality of service and business practices.³³ The Competition Bureau, an independent law enforcement agency, is responsible for promoting and maintaining fair competition to maintain competitive prices, product choice and quality of service.³⁴

Incumbent operators are required to obtain approval from the regulator for their wholesale and unbundled loop rates. Both the cable and DSL segments are legally open to third-party access. In 2006, the CRTC approved proposed rates for third-party access to leading cable TV systems networks.

Canada's 2009 budget included stimulus funds to improve broadband services in rural Canada. Specifically, the budget "provide[d] \$225 million over three years to Industry Canada to develop and implement a strategy on extending broadband coverage to all currently unserved communities beginning in 2009-10."³⁵ As a result, a program entitled "Broadband Canada: Connecting Rural Canadians" was launched. Industry Canada undertook an extensive mapping exercise in order to understand the extent to which Canadians remain unserved or underserved. Based on the mapping data, geographic service areas

²⁸ See WiMAX by Nexcom, available at <http://wimax.nexcom.bg/en/thetechnology/description/>.

²⁹ See TMCnet Bloggers, available at <http://blog.tmcnet.com/telecom-crm/2009/03/27/moveros-mobility-study-verimatrix-in-slovenia-vestitel-in-bulgaria-sun.asp>.

³⁰ See ITU, ICT Statistics Database (2008), available at <http://www.itu.int/ITU-D/icteye/Indicators/Indicators.aspx> (ITU Statistics Database).

³¹ *Id.*

³² See Industry Canada, available at <http://www.ic.gc.ca/>.

³³ See CRTC, available at <http://www.crtc.gc.ca/eng/home-accueil.htm>.

³⁴ See Competition Bureau, available at <http://competitionbureau.gc.ca/eic/site/cb-bc.nsf/eng/home>.

³⁵ See <http://www.budget.gc.ca/2009/plan/bpc3d-eng.asp>.

(GSAs) were defined, and on September 1, 2009, a competitive call for applications was launched to fund projects in the GSAs. The broadband program was supposed to fund up to 50% of eligible project costs. Successful applicants were scheduled to be named in January 2010, but due to the large number applications, the announcement will be made in the first quarter of 2010.³⁶

Competition: Competition in broadband is predominantly facilities-based. The Internet access industry consists of approximately 500 companies. Of these, 9% of those companies are incumbents that own the vast majority of the copper twisted pair access links to homes and businesses. Eighteen percent (18%) are cable companies; 19% are utilities, municipalities, and other providers that mainly provide service utilizing dial-up, DSL, fiber, satellite or fixed wireless facilities; and the remaining 54% are resellers that mainly provide dial-up Internet access service. The five largest Internet access service providers and their affiliates control 77% of the retail Internet market. The incumbent wireline operators (excluding their out-of-territory operations) and cable operators hold, respectively, 42% and 46% of the Internet access market. Providers include cable companies such as Rogers, Cogeco, Shaw, and Vidéotron; telecommunications carriers such as Bell Canada, Bell Alliant, Telus, MTS Allstream, and Sasktel; and resellers including AOL Canada, 3Web/CIA.com, 295.ca, and Inter.net Canada (Uniserve). Alternate providers, such as Inukshuk Wireless (joint venture of Bell Canada and Rogers), mainly serve the business segment, where cable providers have few clients.

Other Media: AM (242); FM (582); TV (148).

Topography: Canada occupies an area somewhat larger than the contiguous 48 states of the United States. Approximately 90% of the population is concentrated within 100 miles of the U.S. border. The terrain is mostly plains with mountains in the west and lowlands in the southeast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|--------------------------|----------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 64.2 ³⁷ | 9,916,217 | 29.7 | 0.0 | 15.2 | 13.2 | 1.3 |

6. Chile

Regulation: Chile does not have an independent telecom regulator. The Undersecretariat of Telecommunications, the Subsecretaria de Telecomunicaciones (SUBTEL), a sub-cabinet-level arm of the Ministry of Transportation and Telecommunications (MTT), acts as both policymaker and telecom regulator.³⁸

Chile was among the first countries to liberalize its telecommunications market, beginning in the mid-1970s, under the Pinochet military government. Chile has an open telecommunications market, with competition in local, domestic long distance and international calling. Under SUBTEL regulations, all Internet Service Providers (ISPs) must interconnect domestically and must provide consistent consumer information on issues such as latency rates and packet size for quality of service purposes. In June 2009, Chile launched a new online portal that allows consumers to compare offers of all Internet providers.³⁹

³⁶ Broadband Canada: Connecting Rural Canadians, Call for Applications for Program Funding, available at http://www.ic.gc.ca/eic/site/719.nsf/eng/h_00000.html.

³⁷ This percentage is from 2007. In even numbered years, Canada includes only its 10 provinces in its statistics.

³⁸ See SUBTEL, available at http://www.subtel.cl/prontus_subtel/site/edic/base/port/inicio.html.

³⁹ See <http://www.gobiernodechile.cl/viewNoticia.aspx?idArticulo=27853>.

In November 2007, Chile released its 2007-2012 Strategy for Digital Development.⁴⁰ The strategy's goals include doubling broadband connections to reach 2 million by 2010, increasing small and mid-range enterprise competition, e-health, and e-education. In October 2008, Chile announced a subsidy plan to provide connectivity to more than three million people in 1,474 rural communities. The subsidy plan is estimated to cost US\$100 million, 70% of which will be provided by the government through Chile's Telecommunications Development Fund.

Competition: Competitors include Telefónica Chile (incumbent); VTR (cable); Telefónica del Sur; GTD Manquehue; Entel; and CMET Telecomunicaciones. Telefónica Chile holds 44.9% of the broadband market as of the end of October 2009, followed by VTR (39.4%), Telefónica del Sur (5.1%), and Telmex (5.4%), which launched its own WiMAX network in 2007.

Telmex Chile and VTR hold wireless local loop licenses that allow them to offer wireless broadband services to the public based on WiMAX technology, particularly in remote, underserved areas. Telmex launched services in the capital city of Santiago and 14 other urban centers in March 2007. In 2008, VTR began deploying a WiMAX network.

Other Media: AM (180); FM (64); TV (63).

Topography: Chile occupies an area slightly smaller than twice the size of Montana. Chile's terrain consists of low coastal mountains, a fertile central valley, and rugged Andes in the east.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 1,426,400 ⁴¹ | 8.49 ⁴² | Data N/A | Data N/A | Data N/A | Data N/A |

7. Cyprus

Regulation: The Ministry of Communications and Works (MCW) oversees the telecommunications, postal services, electrical and mechanical services, road transport, public works, civil aviation and merchant shipping sectors of the economy.⁴³ The Office of the Commissioner of Electronic Communications & Postal Regulation (OCECPR), established in 2002, is responsible for the introduction of effective competition in the provision of networks and services, and the protection of consumers, especially in issues relevant to the price and the quality of the provided services.⁴⁴

Cyprus' broadband strategy goal is to achieve 100% availability of broadband services. It focuses on providing terrestrial wireless or satellite connections to each of the 151 rural communities currently without broadband access.⁴⁵

⁴⁰ See Estrategia Digital Chile 2007-2012, available at <http://www.agendadigital.cl>. An English-language version is available at <http://www.estrategiadigital.gob.cl/node/302>.

⁴¹ ITU Statistics Database.

⁴² *Id.*

⁴³ See MCW, available at http://www.mcw.gov.cy/mcw/mcw.nsf/dmlindex_en/dmlindex_en.

⁴⁴ See OCECPR, available at http://www.ocecpr.org.cy/nqcontent.cfm?a_id=767&tt=ocecpr&lang=gr; see also Cyprus Government, Office of the Commissioner of Electronic Communications and Postal Regulation, available at <http://www.cyprus.gov.cy/portal/portal.nsf/All/6D2934F2A71AAF04C225702A0029F464>.

⁴⁵ MCW, available at <http://www.cto-ict.org/index.php?dir=03&sd=50&cid=20011>.

Competition: Competitors include the Cyprus Telecommunications Authority (CYTA), a quasi-governmental agency established by Cyprus law; PrimeTel, the largest private telecommunication company in Cyprus; and cable operator, Cablenet.⁴⁶

Other Media: AM (5); FM (76); TV (8).

Topography: Cyprus is about 0.6 times the size of Connecticut. Cyprus' terrain consists of a central plain with mountains to the north and the south, and scattered but significant plains along the southern coast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-----------------------|------------------------------|----------|----------|--------------------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 104,000 ⁴⁷ | 12.06 ⁴⁸ | Data N/A | Data N/A | 17.7 ⁴⁹ | Data N/A |

8. Czech Republic

Regulation: The Czech Telecommunication Office (Český telekomunikační úřad or ČTÚ)⁵⁰ is the country's independent regulatory authority, though it is organizationally situated in the Ministry of Informatics (MICR).⁵¹ The Telecoms Act of 2000 governs the telecommunications sector, and the Czech market was opened to competition in 2001.

Local-loop liberalization began in 2003; at that time the Czech Republic was required to harmonize its telecommunications regime with the 2002 European Union telecommunications directives. Ceiling prices for unbundled local loops were modified by a 2008 decision. These ceiling prices are still in effect, and 95% of local exchanges may offer fully unbundled lines.⁵² In 2009, Telefónica O2, the incumbent, introduced a new model for wholesale DSL. Under this model, it would wholesale DSL access in a way that would allow alternative ISPs and their end users to opt out of Telefónica O2's fixed-line telephony offering while subscribing to broadband Internet.

The Czech Government adopted its "National Broadband Access Policy" in January 2005. The policy is based on the OECD Council's recommendations on promoting broadband development. The policy's main goal is to achieve a broadband adoption rate of approximately 50% by 2010.⁵³

⁴⁶ See CYTA, available at http://www.cyta.com.cy/company_history_en.htm and <http://www.cto-ict.org/index.php?dir=03&sd=50&cid=20011>; PrimeTel, available at <http://www.prime-tel.com/Main/main.aspx?id=242>; Cablenet, available at <http://www.cablenet.com.cy/en/>.

⁴⁷ ITU Statistics Database.

⁴⁸ *Id.*

⁴⁹ European Union, "Cyprus", available at http://ec.europa.eu/information_society/policy/ecomm/doc/implementation_enforcement/annualreports/14threport/cy.pdf.

⁵⁰ See ČTÚ, available at <http://www.ctupraha.cz/>.

⁵¹ See MICR, available at <http://www.micr.cz/>.

⁵² https://cesifo-group.de/portal/page/portal/DICE_Content/INFRASTRUCTURE/COMMUNICATION_NETWORKS/Fixed-line/percent20Access/percent20Regulation/dev-loc-loop-unbund_0.pdf.

⁵³ See http://web.mvcr.cz/archiv2008/micr/scripts/detail.php_id_2185.html.

Competition: In the Czech Republic 17.39 out of 100 residents subscribe to the Internet and 17.05 of these subscribers get broadband.⁵⁴ The incumbent operator in the Czech Republic is Telefónica O2.⁵⁵ Its competitors include UPC (cable system operator); Dial Telecom; T-Mobile (loop unbundling, resale and alternate facilities); Radiokomunikace (alternate facilities and fixed wireless); and fixed wireless operators, Broadnet, a subsidiary of Vodafone, and U:fon.

Other Media: AM (31); FM (304); TV (71).

Topography: The Czech Republic occupies an area slightly smaller than South Carolina. The terrain in Bohemia in the west consists of rolling plains, hills, and plateaus surrounded by low mountains; Moravia in the east consists of very hilly country.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|-----|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 36.4 | 1,891,958 | 18.1 | 0.9 | 3.9 | 7.0 | 6.3 |

9. Denmark

Regulation: The National IT and Telecoms Agency (NITA) is Denmark's independent regulator.⁵⁶ NITA operates under the auspices of the Ministry of Science, Technology and Innovation (MSRI).⁵⁷ However, Danish law ensures that the MSRI cannot intervene in the NITA's regulatory functions.

The incumbent, Telia Denmark, is obligated to offer unbundled loops, sub-loops, and bitstream access.⁵⁸ In 2009, the EC approved the Danish regulator's rules forcing TDC, a cable provider that controls large parts of the cable network, to open up its cable broadband network to competitors.⁵⁹

The existing strategy for the rollout and use of broadband in Denmark is based on the 2001 broadband plan "From Hardware to Content." According to the strategic goals outlined in the plan, all Danish citizens and business will have access to broadband of at least 512 kbps by the end of 2010. Denmark is pursuing a market-based approach, ensuring that regulations are technology-neutral and using e-government services as "drivers" to ensure high demand for broadband.⁶⁰

Competition: The following companies compete in the Danish broadband market: TDC; Cybercity; cable TV provider, Telia Stofa; Fixnet Nordic; Telenor; Telia Denmark; and FTTH providers, Dansk Bredband and Energi Midt. Danske Telecom and ELRO provide WiMAX services. Alternative

⁵⁴ "Statistics: Internet," International Telecommunications Union, available at http://www.itu.int/ITU-D/icteye/Reporting/ShowReportFrame.aspx?ReportName=/WTI/InformationTechnologyPublic&RP_intYear=2008&RP_intLanguageID=1.

⁵⁵ See "Czech Republic Telecoms: Sub-sector Update," Telecoms and Technology Forecast (Economic Intelligence Unit) (Feb. 6, 2010).

⁵⁶ See NITA, available at <http://en.itst.dk/>.

⁵⁷ See MSTI, available at <http://en.vtu.dk/>.

⁵⁸ *Id.*

⁵⁹ See NITA, available at <http://en.itst.dk/news/tdcs-cable-tv-network-opened-up-to-competitors>.

⁶⁰ See Letter from Finn Peterson, Deputy Director General, National IT and Telecom Agency (Denmark) to John Giusti, Acting Chief, International Bureau, Federal Communications Commission, June 17, 2009.

infrastructure operators include Danske Telecom and Sonofon. Cable providers include Dansk Kabel TV, TDC, and Telia Sofia. Experts estimate that the Denmark networks will be ready to support the projected demand of 50 Mbps downstream and 10 Mbps upstream demand in 80% of Danish households by 2013. All households will at least have 10 Mbps downstream and 5 Mbps upstream, which will meet consumer demands for all broadband except HDTV. To meet increasing future demands, Denmark must invest in new infrastructure, such as fiber optic.⁶¹

Other Media: AM (1);⁶² FM (355); TV (172).

Topography: Denmark occupies an area that is slightly less than twice the size of Massachusetts. About one-quarter of Denmark's population lives in greater Copenhagen. The terrain consists of low and flat to gently rolling plains.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 74.1 | 2,031,000 | 37.0 | 3.9 | 9.9 | 22.4 | 0.9 |

10. Estonia

Regulation: The Ministry of Economic Affairs and Communications (MEAC) sets communications policy.⁶³ The independent regulator is the Technical Surveillance Authority (TJA), a governmental organization established in 2008 by merging the Communications Board, the Railway Inspectorate and the Technical Surveillance Inspectorate.⁶⁴

The Estonian government has announced that it will provide broadband access to all homes and businesses in the country by 2015. The "EstWin" initiative is projected to create a 4,125 mile fiber-optic cable network offering speeds of up to 100 Mbps at a cost of 283 million Euro (US\$374 million). Of this amount, the government, drawing on money from EU structural funds, will pay approximately 25% of the project, and the country's major telecommunications companies will pay the remainder.⁶⁵

Competition: Strong competition is present only in the urban areas, where local cable operators compete with the incumbent telecommunications carrier, Elion, in the provision of Internet services. As of the end of 2008, 82% of broadband subscribers had service with Elion or cable operators Starman and STV.⁶⁶

Other Media: AM (0); FM (32); TV (15).

⁶¹ "Denmark as a High Speed Society," The High Speed Committee 2010 (Danish National IT and Telecom Agency) (January 2010, available at <http://en.itst.dk/the-governments-it-and-telecommunications-policy/the-high-speed-committee/High%20Speed%20Committee.pdf>).

⁶² The Danish Broadcasting Corporation transmits mostly via FM, but also provides AM and DAB services. See <http://www.dr.dk/OmDR/About+DR/20060622150803.htm> and <http://www.dr.dk/OmDR/Modtagelse/Radio/20091026132153.htm>.

⁶³ See MEAC, available at <http://www.mkm.ee/en>.

⁶⁴ See TJA, available at <http://www.tja.ee/?lang=en>.

⁶⁵ See TJA, available at <http://www.tja.ee/?lang=en>.

⁶⁶ See Konkurentsiamet (Estonian Competition Authority) 2008 Annual Report, available at http://www.konkurentsiamet.ee/public/AnnualReports/Annual_Report_2008.pdf.

Topography: Estonia occupies an area that is slightly smaller than New Hampshire and Vermont combined. The mainland terrain is flat, boggy, and partly wooded, while the south is hilly and the north is flat.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-----------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 317,900 ⁶⁷ | 23.70 ⁶⁸ | Data N/A | Data N/A | Data N/A | Data N/A |

11. Finland

Regulation: The Ministry of Transport and Communications (MINTC)⁶⁹ sets communications policy, and Finland's independent communications regulator is the Finnish Communications Regulatory Authority (FICORA).⁷⁰ The Finnish telecommunications market was first opened up to competition when data communication and business networks were liberalized under the Telecommunications Act of 1987. The laws governing telecommunications and digital broadcast networks in Finland were converged in mid-2002 by broadening the scope of the 1987 Act to include cable TV and digital wireless terrestrial broadcasting.⁷¹

FICORA has imposed an obligation on operators with significant market power to lease the local loops to other operators.

The Finnish government passed legislation in 2009 to make broadband connectivity a fundamental right for every person in the country. The law requires ISPs to offer connections of at least 1 Mbps to all of Finland's 5.3 million citizens by July 2010. FICORA says the mandate is necessary in order to improve the availability of broadband in Finland's remote rural areas and will improve business opportunities, access to online services such as banking, and quality of life for people living in sparsely populated regions. The legislation is part of a commitment from the Finnish government to provide universal broadband services, which includes a pledge to make 100 Mbps broadband access available to all Finnish residents by 2015.⁷²

Competition: Elisa, Teliasonera, DNA and Finnet are the leading players in the broadband market.⁷³ Elisa is the market leader with 32% of the broadband market as of early 2009.⁷⁴ Teliasonera follows

⁶⁷ ITU Statistics Database.

⁶⁸ *Id.*

⁶⁹ See MINTC, available at <http://www.mintc.fi/web/en/home>.

⁷⁰ See FICORA, available at <http://www.ficora.fi/en/index.html>.

⁷¹ See Goliath, http://goliath.ecnext.com/coms2/gi_0199-2883809/Finland-s-Broadcast-And-Telecommunications.html. The name of "Telecommunications Market Act" was also changed to "Communications Market Act" to reflect its new scope.

⁷² *Id.*

⁷³ See FICORA, "Market Review 3/2009: Price level of telecommunications services in Finland 2008" (Nov. 2009) (*FICORA Market Review Report*) available at http://www.ficora.fi/attachments/ruotsiav/5mnNXXdeL/DOHA_n580363_v3_Market_review_3_2009_-_Price_level_of_telecommunications_services_in_Finland_2008.pdf; see generally FICORA, Market Review Report section, available at <http://www.ficora.fi/en/index/tutkimukset/puhelinjalajaikaistapalvelut/markkinatieto.html>.

⁷⁴ *Id.*

closely behind with around 30%, while DNA holds 17% and Finnet holds 12%.⁷⁵ DSL services were introduced by Sonera (now TeliaSonera) in 1998, making Finland one of the first countries in the world to have broadband offerings.⁷⁶ There are 17 cable television companies that offer broadband services in Finland.⁷⁷ The largest is Welho, which operates from the capital, Helsinki.⁷⁸ Wireless broadband is limited in Finland, making up around 1% of Internet connections.⁷⁹

Other Media: AM (2); FM (59); TV (120).

Topography: Finland occupies an area slightly smaller than Montana. Finland's population is concentrated on a small southwestern coastal plain. The terrain is mostly low, flat to rolling plains interspersed with lakes and low hills.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 66.1 | 1,579,600 | 29.7 | 0.0 | 4.1 | 24.9 | 0.8 |

12. France

Regulation: The responsibility for France's national telecommunications policy resides in the General Directorate for the Information Technology and Postal Services (DiGITIP), a unit of the Ministry of Economy, Industry and Employment (MEIE).⁸⁰ Created in November 1998, the DiGITIP proposes and implements policies to promote an industrial and competitive environment favorable to France's communications industry, both domestically and internationally. France's Autorité de Régulation des Communications Electroniques et des Postes (ARCEP) is the independent regulator.⁸¹ ARCEP's responsibilities include adopting regulations articulating the rights and obligations of operators; enforcing licensees' obligations and imposing penalties for breaches of the Act; sanctioning operators for not meeting legal or regulatory requirements; creating technical rules for efficient use of radio spectrum and telephone numbers; allocating frequency and numbering resources; approving interconnection of operators with significant market power; and examining license applications on behalf of the MEIE. France's telecommunications sector is governed by The Telecommunications Law of July 9, 2004, relating to electronic communication and audiovisual communication services, which amended the 1996 Telecommunications Act and incorporated the EU's 2003 regulatory framework for electronic communications into French national law.

As of July 2009, unbundled loop facilities are available in exchanges covering more than 72% of the French population.⁸² ARCEP has emphasized that operators must resolve quality of service issues,

⁷⁵ *Id.*

⁷⁶ See Point Topic, available at <http://point-topic.com/content/operatorsource/profiles2/finland-broadband-overview.htm>.

⁷⁷ See FICORA, available at http://www.ficora.fi/attachments/englantiav/5m4R6KvqC/Broadband_Prices_in_the_Nordic_Countries_2006.pdf.

⁷⁸ See FICORA Market Review Report.

⁷⁹ *Id.*

⁸⁰ See MEIE, available at <http://www.telecom.gouv.fr/accueil.php3>.

⁸¹ See ARCEP, available at <http://www.arcep.fr/index.php?id=1&L=1>.

⁸² Letter from Joel Voisin-Ratelle, Head, International Bureau, Autorite de Regulation des Communications Electroniques et des Postes to John Giusti, Acting Chief, International Bureau, FCC, July 23, 2009.

including access to lines with technical problems.⁸³ The regulator has mandated access to rights of way, poles, ducts, and existing sheaths, and the sharing of the terminal part of fiber networks.⁸⁴ ARCEP has also developed a framework for fiber, which applies symmetric regulation to all operators – whoever is first to construct within a building is required to provide shared access to competitors.

Digital France 2012, adopted in October 2008, sets out France’s proposals for infrastructure development and includes a plan to achieve universal broadband access in France by the end of 2010 through the designation of “universal broadband providers.” These providers would be responsible for providing universal access and establishing public-private partnerships to increase the rollout of fiber networks.⁸⁵

Competition: Competitors in the broadband market include Orange (France Telecom), Free (Iliad), Alice (Iliad), Club Internet, Neuf Cegetel (SFR), and Numericable. Orange, Neuf Cegetel and Iliad hold the largest market shares. Local-loop unbundling is used primarily to provide differentiated DSL services. Providers, including Free and Neuf Cegetel, used a total of 6.1 million lines, either partially or fully unbundled, as of the end of the third quarter of 2008. Cable still accounts for much of the alternative last-mile infrastructure although Iliad and SFR’s Neuf Cegetel have begun the rollout of fiber.

The three leading broadband providers in France all offer IPTV and have committed to roll out fixed-mobile convergence services. The three companies all offer a “box” (Orange’s Livebox, Iliad’s Freebox and Neuf Cegetel’s Neuf Box) that customers can use to access broadband, VoIP, and Wi-Fi. In addition, Bouygues Telecom offers its “Ideo” service, which is a quadruple-play package. For the equivalent of \$54 per month, subscribers receive Internet, TV, fixed telephone and mobile phone connections.⁸⁶

Sixty-seven percent of the population in France has access to the Internet in their home. A recent study found 56% of Internet users used the Internet to research administrative and fiscal information, and 57% shopped online last year.⁸⁷ Fourteen percent of this connected population used their computers to make telephone calls through Skype or other applications; 33% are active on social networking sites, such as Facebook or LinkedIn; and 20% watch TV on the Internet.⁸⁸ Of the Internet users in France, 31% downloaded music during the past twelve months; 21% downloaded films; and 34% downloaded

⁸³ See https://www.cesifo-group.de/portal/page/portal/DICE_Content/INFRASTRUCTURE/COMMUNICATION_NETWORKS/Fixed-line_percent20Access_percent20Regulation/dev-loc-loop-unbund_0.pdf.

⁸⁴ ARCEP, “ARCEP pleased by operators’ publication of their FTTH technical and pricing reference offers. ARCEP has published a practical guide on the terms and conditions of fiber rollouts, for property owners, managers and joint owners,” (Feb. 10, 2010), *available at* [http://arcep.fr/index.php?id=8571&L=1&tx_gsactualite_pi1\[uid\]=1251&tx_gsactualite_pi1\[annee\]=&tx_gsactualite_pi1\[theme\]=&tx_gsactualite_pi1\[motscle\]=&tx_gsactualite_pi1\[backID\]=26&cHash=31099861b8](http://arcep.fr/index.php?id=8571&L=1&tx_gsactualite_pi1[uid]=1251&tx_gsactualite_pi1[annee]=&tx_gsactualite_pi1[theme]=&tx_gsactualite_pi1[motscle]=&tx_gsactualite_pi1[backID]=26&cHash=31099861b8).

⁸⁵ See <http://www.arcep.fr/fileadmin/reprise/communiqués/communiqués/2009/comnq-nkm-fibre-100709.pdf>.

⁸⁶ “Internet: les fournisseurs d’accès lancent des offres moins chères mais moins riches,” *Le monde* (Feb. 13, 2010), *available at* http://www.lemonde.fr/technologies/article/2010/02/12/internet-les-fournisseurs-d-acces-lancent-des-offres-moins-cheres-mais-moins-riches_1304840_651865.html; “Numericable va lancer un forfait social Internet à 9,99 euros,” *Le monde* (Feb. 8, 2010) *available at* http://www.lemonde.fr/economie/article/2010/02/08/numericable-va-lancer-un-forfait-social-internet-a-9-99-euros_1302930_3234.html

⁸⁷ “La diffusion des technologies de l’information et de la communications dans la société française,” Centre de Recherche pour l’Etude et l’Observation des Conditions de Vie (CREDOC) (Nov. 2009), *available at* http://www.arcep.fr/uploads/tx_gspublication/etude-credoc-2009-111209.pdf.

⁸⁸ *Id.*

software. Twenty six percent of Internet users (and 49% of students who use the Internet) used it to look for jobs.⁸⁹

Other Media: AM (41); FM (about 3,500); TV (584).

Topography: France occupies an area slightly smaller than the size of Texas. The terrain consists of mostly flat plains or gently rolling hills in the north and west; the remainder is mountainous, especially with the Pyrenees in the south, and the Alps in the east.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 57.1 | 18,675,000 | 29.1 | 0.1 | 1.6 | 27.5 | 0.0 |

13. Germany

Regulation: Policy-related issues in the telecommunications sector are directed by the Federal Ministry of Economics and Technology (BMWi).⁹⁰ Its mission is to foster “successful economic activity” in Germany, and the Ministry plays a key legislative, administrative and coordination role in areas such as competition policy and trade issues that affect the German telecommunications sector. Germany’s independent telecommunications regulator is the Federal Network Agency, Bundesnetzagentur (BnetzA).⁹¹

Agreements for VDSL wholesale access are mainly contractual, with the conditions decided between operators and approved by the regulator, rather than by direct guidance from the BnetzA. The monthly fee competitors pay for access to unbundled loops from DT is currently \$14; the regulator will review local loop unbundling fees in March 2011. Commercial negotiations over wholesale access to fiber optic networks failed to reach agreements, however; the BnetzA set the terms of access in a December 2009 order. That order outlined the technical specifications for installing DSLAM equipment in the cabinets and fiber-optic cables into cable ducts, as well as the use of DT’s unlit fiber when the lack of space prohibits the sharing of passive infrastructure. In early February 2010, Germany’s highest administrative court ruled that DT did not have to give competitors access to dark fiber on its VDSL network. However, the Court stated (affirming the regulator’s December 2009 order) that DT did have to give competitors access to its street cabinets and empty pipes.

Germany’s Broadband Strategy was released in February 2009.⁹² The strategy defines two overarching targets. First, gaps in broadband penetration are to be eliminated and capable broadband, defined as at least 1 Mbps, is to be made available nationwide by the end of 2010. Second, a total of 75% of all German households are to have Internet access with speeds of at least 50 Mbps by 2014.⁹³ The government describes its approach as “incentive-oriented” and includes a number of tactics for achieving its short-term and long-term goals.⁹⁴ In the short-term it will focus mainly on financial support for local

⁸⁹ *Id.*

⁹⁰ See BMWi, available at <http://www.bmwi.de/English/Navigation/root.html>.

⁹¹ See BnetzA, available at <http://www.bundesnetzagentur.de/enid/98affacc9ef0ab056cda24ebc3920710.0/xn.html>.

⁹² BMWi, *The Federal Government’s Broadband Strategy* (Feb. 2009) (German Broadband Strategy), available at <http://www.bmwi.de/English/Redaktion/Pdf/broadband-strategy.property=pdf.bereich=bmwi.sprache=en.rwb=true.pdf>.

⁹³ German Broadband Strategy at 5.

⁹⁴ *Id.* at 10.

authorities and improving financial options available to companies. In the long-term, it will focus on incentives within the overall European Union regulatory framework and provide stimulus where it can promote synergies from infrastructure projects. Specific measures include optimizing shared use of existing infrastructure and facilities; and compiling an “infrastructure atlas” (*i.e.*, broadband map) and a database of construction sites.⁹⁵ The German government has also taken steps to make more spectrum available for mobile broadband by reallocating spectrum in the 800 MHz band newly available as a result of Germany’s digital television transition, and freeing up the 900 MHz band for data.⁹⁶

In July 2008, the EC approved Germany’s 141 million Euro (US\$223-million) state-aid plan to bring broadband to rural areas currently without access. The plan has the potential to help rural areas in the former East Germany (GDR), which have lagged behind the rest of the country in terms of broadband access. This is because the GDR information infrastructure was less developed than the western parts of Germany. In November 2008, the Commission approved another aid package worth 45 million Euro (US\$61 million), and another 25 million Euro (US\$34 million) in January, bringing the total amount of subsidy to 211 million Euro (US\$286 million).

Competition: As of 2009, 70% of German households had access to broadband services of at least 2 Mbps and 20% had access to VDSL technology supporting broadband services up to 50 Mbps.⁹⁷

The broadband market is dominated by DSL providers. As of 2009, there are approximately 11.6 million subscribers to retail broadband access services from Deutsche Telekom and another 10.5 million subscribers to companies utilizing resale, bitstream access or unbundled loops from Deutsche Telekom.⁹⁸ Other providers utilizing DSL include United Internet,⁹⁹ Vodafone,¹⁰⁰ Hansenet,¹⁰¹ Versatel, and EWE Group.¹⁰² There are approximately 2.8 million subscribers to broadband Internet access services from

⁹⁵ *Id.* at 11-13.

⁹⁶ *Id.* at 13; *see also* Zukunft Breitband (Germany’s Broadband Portal) “Flächendeckende Breitbandversorgung forcieren - Aufbau von Hochleistungsnetzen unterstützen” available at <http://www.zukunft-breitband.de/BBA/Navigation/breitbandstrategie.html>.

⁹⁷ German Broadband Strategy at 7.

⁹⁸ Dialog Consult for the Association of the Telecommunications and Value-Added Service Providers (VATM), *11th Joint Analysis of the Telecommunications Market 2009: Results of a survey of member companies of the in the third quarter of 2009*, (Nov. 2009) (*VATM Analysis of the Telecommunications Market*) at 14, available at <http://www.vatm.de/uploads/media/10-02-2010.pdf>.

⁹⁹ Freenet, previously a leading ISP, sold its DSL assets to United Internet in May 2009. *See* Freenet Press Release, May 26, 2009, available at <http://www.freenet-ag.de/pr/8256.htm>. In Appendix C, we include price information for Freenet, available at the time of our research.

¹⁰⁰ In Appendix C, we include price information for Arcor, which has been solely owned by Vodafone since May 2008. *See* Vodafone website, “An Integrated Communications Group Takes Shape As Vodafone and Arcor Introduce An Integrative Management Structure” (June 2008), available at http://www.vodafone.com/start/media_relations/news/local_press_releases/germany/germany_press_release/an_integrated_communications.html, Vodafone Annual Report (Mar. 2009), available at http://www.vodafone.com/annual_report09/financials/notes_cons_fin_statements/note12.html.

¹⁰¹ Telefónica purchased Hansenet from Telecom Italia in 2009. *See* Telecom Italia, “Telecom Italia: definitive agreements finalized for the sale of HanseNet to Telefonica” (Dec. 3, 2009) available at http://www.telecomitalia.it/portal/en/archivio/media/comunicati_stampa/telecom_italia/corporate/economico_finanziario/2009/12-03.html. In Appendix C, we include price information for Alice, which is the name Hansenet uses to market its broadband access services. *See* Alice website, available at <http://www.alice-dsl.de>.

¹⁰² *VATM Analysis of the Telecommunications Market* at 17.

cable companies, including Kabel Deutschland GmbH, Unitymedia and Kabel BW.¹⁰³ A number of regional carriers, such as M-Net (Munich) and NetCologne (Cologne) are rolling out fiber-optic networks, including fiber-to-the-home (FTTH).¹⁰⁴ There are also a small number of subscribers to broadband satellite services.¹⁰⁵

Other Media: AM (51); FM (787); TV (373).

Topography: Germany occupies an area that is slightly smaller than Montana. Germany's terrain consists of lowlands in the north, uplands in the center, and Bavarian Alps in the south.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 54.9 | 24,043,000 | 29.3 | 0.1 | 2.4 | 26.7 | 0.1 |

14. Greece

Regulation: Both the Ministry of Transport and Communications (MTC)¹⁰⁶ and the independent regulator, Hellenic Telecommunications & Post Commission (EETT),¹⁰⁷ are responsible for oversight of Greece's regulatory framework. In 2006, EETT incorporated the EU's 2003 regulatory framework for electronic communications into Greek law, and imposed new regulations on local loop unbundling.

In 2005, Greece adopted a national broadband plan titled Digital Strategy 2006-2013.¹⁰⁸ The plan's objectives are to use broadband and information and communications technologies (ICT) to enhance business productivity and to improve the quality of life for the Greek population, in part through the development of e-government services.¹⁰⁹ In 2008, the Greek government announced that development had begun on metropolitan area fiber optic networks for 75 cities and wireless networks for 120 smaller cities.¹¹⁰ In February 2009, the Greek government announced a public-private partnership to build a national fiber-optic network to Athens and 50 other cities (including the islands) with speeds of up to 100 Mbps for nearly 650,000 users by the end of 2010 and to be expanded to over two million households over the next seven years.¹¹¹

¹⁰³ *Id.* at 12.

¹⁰⁴ At the end of 2009, the number of subscribers to fiber optic broadband access services was less than 100,000. *Id.* at 14.

¹⁰⁵ As of the end of 2008, there are approximately 30,000 subscribers to satellite-delivered broadband services in Germany. German Broadband Strategy at 7.

¹⁰⁶ See MTC, available at <http://www.yme.gr/index.php?getwhat=1&oid=531&id=&tid=531>.

¹⁰⁷ See EETT, available at http://www.eett.gr/opencms/opencms/EETT_EN/index.html.

¹⁰⁸ See Ministry of Economy and Finance, "Digital Greece and the Greek Digital Strategy" (Jan. 2008) (*Greek Digital Report 2008*) available at http://www.mnec.gr/export/sites/mnec/en/press_office/DeltiaTypou/Documents/2008-01-28_FactSheetOnDigitalGreece.pdf.

¹⁰⁹ *Id.*

¹¹⁰ *Id.* at 6.

¹¹¹ Nicolae Oaca, "Broadband for All Europeans' to Fight Economic Crisis", *IEEE Global Communications Newsletter* (June 2009) at 2.

Competition: Competitors in the broadband market include OTEnet, Forthnet, and Tellas.¹¹² As of March 2008, 34% of OTE's DSL lines were provided by third-party ISPs.¹¹³ Greece has no cable networks.

Other Media: AM (26); FM (88); TV (36).

Topography: Greece occupies an area slightly smaller than the size of Alabama. Greece's terrain is mostly mountains with ranges extending into the sea as peninsulas or chains of islands.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 22.5 | 1,908,000 | 17.0 | 0.0 | 0.0 | 17.0 | 0.0 |

15. Hong Kong

Regulation: Established in July 1993, the Office of the Telecommunications Authority (OFTA) is Hong Kong's independent regulator for telecommunications.¹¹⁴ OFTA issues telecommunications licenses, administers the numbering plan, oversees technical standards and international affairs, manages spectrum, and provides technical support in the regulation of broadcasting services. The Commerce and Economic Development Bureau (CEDB) is Hong Kong's policy-making body for the telecommunications, broadcasting, and film industries.¹¹⁵ The CEDB sets information technology goals for Hong Kong, in cooperation with the Legislative Council of the government.

Although Hong Kong has been a part of the People's Republic of China since 1997, its communications market remains more competitive, more market-driven and less regulated than other parts of China. All sectors of Hong Kong's telecommunications market have been liberalized, and there are no foreign ownership restrictions.

In July 2004, OFTA decided that mandatory local loop unbundling would end by June 2008. OFTA determined that this decision would promote investment and consumer choice in broadband networks. Unbundling is maintained in buildings where it is technically unfeasible or economically unviable for competitors to install infrastructure.

The Digital 21 Strategy, the blueprint for ICT development in Hong Kong, sets out a vision of building on Hong Kong's position as a "world digital city." The strategy was first published in 1998 and is updated regularly. The 2008 edition identified five action areas for implementation between 2008 and 2010.¹¹⁶

Competition: Competitors in the broadband market include PCCW, HKNet, and City Telecom (HKBN).¹¹⁷ I-Cable provides broadband over its cable system. HKBN, SmarTone, HKNet and other fixed wireless licensees utilize alternative last-mile infrastructure.

¹¹² In Appendix C, we include price information for Hellas Online (HOL), a competitive entrant offering broadband services. See Hellas Online website, available at <http://www.hol.gr>.

¹¹³ See European Competitive Telecommunications Association (ECTA), available at <http://www.ectaportal.com/en/>.

¹¹⁴ See OFTA, available at <http://www.ofta.gov.hk/en/>.

¹¹⁵ See CEDB, available at <http://www.cedb.gov.hk/about/index.htm>.

¹¹⁶ <http://info.gov.hk/digital21/eng/index.htm>.

Video-on-demand services have contributed to Hong Kong having one of the highest broadband penetration rates in the world.¹¹⁸ Hong Kong's household broadband penetration rate in October 2009 was 79%.¹¹⁹ Hong Kong has one of the highest household penetration rates for IPTV in the world (1.2 million IPTV subscribers).¹²⁰

Other Media: AM (6); FM (10); TV (2).

Topography: Hong Kong occupies an area six times the size of Washington, DC. The terrain is hilly to mountainous with steep slopes, and lowlands in the north.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|--------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 1,948,300 ¹²¹ | 27.9 ¹²² | Data N/A | Data N/A | Data N/A | Data N/A |

16. Hungary

Regulation: The NCAH (National Communications Regulatory Authority) was established in 2004 as Hungary's independent regulatory authority.¹²³ It is regulated by Act C of 2003 on electronic communications. The incumbent, Magyar Telekom, has been required to offer unbundling to allow competitors access to its network since 2001.

Hungary adopted a National Broadband Strategy in 2005. Its aim is to facilitate content development and the spread of broadband communication in the private and public sectors.¹²⁴

Competition: Competitors in the broadband market include Magyar Telekom (T-Mobile),¹²⁵ HTCC/Invitel, UPC, Fibernet, and DIGI.¹²⁶ The four largest cable broadband providers are UPC, T-Kabel, Fibernet, and DIGI. Magyar Telekom also offers the Sky DSL service, which provides broadband via satellite networks.

(...continued from previous page)

¹¹⁷ In Appendix C, we include price information for New World Telecom, a competitive entrant offering broadband services. See New World Telecom website, available at <http://www.newworldtel.com>.

¹¹⁸ See International Telecommunication Union Workshop on Promoting Broadband, April 9-11, 2003, Promoting Broadband: Background Paper 12, Doc. PB/03 (April 7, 2003), available at <http://www.itu.int/osg/spu/ni/promotebroadband/PB03-PromotingBroadband.pdf>.

¹¹⁹ Hong Kong Special Administration Region Government, Hong Kong: The Facts Telecommunications (Oct. 2009), available at <http://www.gov.hk/en/about/abouthk/factsheets/docs/telecommunications.pdf>.

¹²⁰ *Id.*

¹²¹ ITU Statistics Database.

¹²² *Id.*

¹²³ See NHAH, available at <http://www.hif.hu/index.php?lang=en>.

¹²⁴ See ITU, available at <http://www.itu.int/wsis/stocktaking/plugin/documents.asp?project=1142001674&lang=en>.

¹²⁵ In Appendix C, we include price information for T-Home, which is the name Magyar Telekom uses to market its broadband access services. See T-Home website, available at <http://www.t-home.hu/>.

¹²⁶ In Appendix C, we include price information for Enternet and Extranet, two competitive entrants offering broadband services. See Enternet website, available at <http://www.enternet.hu> and Extranet website, available at <http://www.externet.hu>.

Other Media: AM (5); FM (90); TV (95).

Topography: Hungary is slightly smaller than Indiana. The terrain is mostly flat to rolling plains; there are hills and low mountains on the Slovakian border.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|-----|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 42.3 | 1,688,414 | 16.8 | 1.0 | 7.6 | 8.2 | 0.0 |

17. Iceland

Regulation: Iceland's Post and Telecom Administration (PTA)¹²⁷ was created in 1997 and is an independent body under the direction of the Minister of Communications (MOC).¹²⁸ The PTA is responsible for granting operational licenses for posts and telecommunications, supervising licensees and enforcing the Government's telecommunication policy and regulations.

The legal framework for electronic communications services is influenced by the Directives of the EU. Having signed the Agreement on the European Economic Area, Iceland committed to adopt all of the EU Directives in the field of electronic communications. Iceland's Electronic Communications Act and the Act on the PTA, both of which were passed in 2003, implement the major provisions of the EU Communications Directive package of 2002.

In 2004, the government released a policy document called "Resources to Serve Everyone: Policy of the Government of Iceland on the Information Society 2004-2007."¹²⁹ This national policy document included targets for e-government, e-business, education, environment, security, health care and social services.

Competition: Telecommunications infrastructure in Iceland is modern and fully digitized, with satellite-earth stations, fiber-optic cables, and an extensive broadband network. The incumbent Siminn and Vodafone Iceland offer broadband via DSL lines. Mobile phone and broadband penetration rates are among the highest in the world, the latter benefiting from extensive DSL and fiber networks.

Other Media: AM (3); FM (about 70); TV (14).

Topography: Iceland occupies an area slightly smaller than Kentucky. Iceland's terrain is mainly a plateau interspersed with mountain peaks and ice fields. The coast is deeply indented by bays and fiords.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 83.2 | 104,604 | 32.8 | 1.3 | 0.0 | 30.7 | 0.7 |

¹²⁷ See PTA, available at http://www.pta.is/default.aspx?cat_id=101.

¹²⁸ See MOC, available at <http://eng.samgonguraduneyti.is/>.

¹²⁹ See http://eng.forsaetisraduneyti.is/media/English/IT_Policy2004.pdf.

18. Ireland

Regulation: Policy is set by the Department of Communications, Energy and Natural Resources (DCENR).¹³⁰ The Irish telecom regulator is the Commission for Communications Regulation (ComReg).¹³¹ Under the Communications Regulation Act of 2002, ComReg sets prices, allocates frequencies, and issues licenses to applicants. The incumbent, eircom, is required to provide unbundled loops and bitstream access to competitive providers.¹³²

In January of 2009, the Irish government announced its National Broadband Scheme (NBS), which is intended to provide mobile and wireless broadband to regions and populations that do not have broadband access.¹³³ As part of the plan, in December 2008, the government entered into a contract with “3” (a Hutchison Whampoa company), to be the provider of services to unserved areas. Residential and business customers within those areas can subscribe to mobile wireless broadband services with a minimum download speed of 1.2 Mbps and a minimum upload speed of 200 kbps with a contention ratio of 36:1.¹³⁴ In some areas where service will be very costly and difficult to reach, “3” will be allowed to offer a satellite product of 1Mbps download and 128 kbps upload.

Competition: Leading broadband competitors in Ireland include eircom, Irish Broadband, BT Ireland, and UPC.¹³⁵ In the third quarter of 2009, eircom controlled 35.5% of the retail broadband market. The remainder of the market was held by operators of alternative broadband platforms, including cable, fixed wireless, fiber, satellite and mobile broadband.¹³⁶

Other Media: AM (9); FM (106); TV (4).

Topography: Ireland occupies an area slightly larger than West Virginia. Over 40% of the population resides within 62 miles of Dublin. The terrain consists of mostly level to rolling interior plains surrounded by rugged hills and low mountains, with sea cliffs on the west coast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 42.9 | 950,082 | 21.4 | 0.1 | 2.8 | 15.5 | 3.0 |

19. Italy

Regulation: The Ministry of Economic Development (MED) is responsible for overall supervision of Italy’s postal and financial systems, as well as coordination of telecommunications policy.¹³⁷ The

¹³⁰ See DCENR, available at <http://www.dcenr.gov.ie/>

¹³¹ See ComReg, available at <http://www.odtr.ie/>.

¹³² See ComReg, available at <http://www.comreg.ie/fileupload/publications/pres170402.pdf>.

¹³³ See Department of Communications, Energy and Natural Resources, “National Broadband Scheme” (2008), available at <http://www.dcenr.gov.ie/Communications/Communications+Development/National+Broadband+Scheme.htm>.

¹³⁴ *Id.*

¹³⁵ In Appendix C, we include price information for Digiweb, a competitive entrant offering broadband services. See Digiweb website, available at <http://www.digiweb.ie/about-us>.

¹³⁶ ComReg, available at <http://www.comreg.ie/fileupload/publications/ComReg09101.pdf>.

¹³⁷ See MED, available at http://www.comunicazioni.it/english_version/english_ministry/.

Department of Communications, located within the MED, reviews technical regulations related to ensuring service quality for ICT users; publishes technical procedures regarding type approval for terminal apparatus and the use and connection to telecommunications networks; grants licenses and authorizations; and assists with the planning, allocation and management of spectrum. The Autorità per le Garanzie nelle Comunicazioni (AGCOM) is Italy's independent regulator.¹³⁸ Its responsibilities include determining which companies have significant market power; establishing interconnection agreements; setting conditions for access to public networks and granting licenses; ensuring quality of service; and supervising numbering policies.

The take-up of residential broadband services has been largely influenced by two phenomena: the absence of cable television and the relatively limited penetration (approximately 50%) of PCs in Italian households. These factors are only partially mitigated by the availability of fiber-to-the-home and significant take-up of mobile broadband, which is growing.¹³⁹

In October 2009, the Italian government announced a universal broadband plan to ensure broadband access for all Italians by the end of 2010. The plan, which will require investment of around 800 million Euro (US\$1.19 billion) from public and private sources, aims to provide universal access with transmission speeds of at least 2 Mbps.¹⁴⁰

Competition: The leading competitors in the Italian broadband market are Telecom Italia, FastWeb, Wind, Tiscali, and Vodafone (Tele2).¹⁴¹ Alternative last-mile infrastructure (provided by competitive local exchange carriers and fixed wireless and satellite operators), the resale of DSL services, local-loop unbundling and WiMAX have all provided competition for the incumbent Telecom Italia.¹⁴²

Other Media: AM (100); FM (4,000); TV (358).

Topography: Italy occupies an area slightly larger than Arizona. The terrain is mostly rugged and mountainous with some plains and coastal lowlands.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 30.8 | 11,878,000 | 19.8 | 0.5 | 0.0 | 19.2 | 0.1 |

20. Japan

Regulation: The Ministry of Internal Affairs and Communications (MIC) develops communications policy and administers the Telecommunications Business Law and the Radio Wave Law.¹⁴³ MIC also functions as Japan's regulator, issuing telecom and broadcasting licenses, and overseeing wire and radio-based services for domestic and international communications. The Telecommunications Business

¹³⁸ See AGCOM, available at http://www2.agcom.it/eng/eng_intro.htm.

¹³⁹ See Letter from Antonio Amedola, Advisor to Secretary-General, Autorita per le garanzie nelle comunicazioni, AGCOM, to John Giusti, Acting Chief, International Bureau, FCC, June 10, 2009.

¹⁴⁰ See Deepa Babington, "Italian broadband plan welcomed but hurdles loom," Reuters, available at <http://www.reuters.com/article/idUSLH12584920090717>.

¹⁴¹ AGCOM Report, available at http://www2.agcom.it/eng/mkt_analysis/mkt_12_summary.pdf.

¹⁴² In Appendix C, we include price information for Libero. See Libero website, available at <http://www.libero.it/>.

¹⁴³ See MIC, available at <http://www.soumu.go.jp/english/index.html>

Dispute Resolution Commission (TBDRC) has the power to fine, revoke licenses, and order remedies without appeal or challenges from the government. MIC cannot overrule or challenge TBDRC decisions or become involved in its deliberations.

In September 2006, MIC released its “New Competition Promotion Program 2010,” a roadmap for a comprehensive review of its competition rules. Revised by the MIC in 2008, the plan seeks to promote facilities-based competition, review dominant regulations, review the calculation method for interconnection charges of NTT East/West, promote competition in the mobile communications market, develop environments intended for implementation of IP-enabled communication terminals, review tariff policies, review universal service system, develop environments intended to ensure network neutrality, strengthen dispute settlement functions, and enhance consumer protection measures.¹⁴⁴

Competition: Competitors in the broadband market include NTT, Softbank BB, and KDDI, eAccess, Nifty, Opticom, TEPCO and NEC Big Globe. Competition to NTT in the broadband market is provided by Jupiter Broadband (cable broadband) and Japan Telecom, KDDI and PoweredCom (all through alternative last-mile infrastructure). The focus of the broadband media market in recent years is on fiber. The number of fiber-to-the-home (FTTH) subscribers has grown: FTTH is now the dominant broadband technology in the country and the key driver for overall growth in broadband services.

Other Media: AM (215); FM (89); TV (211).

Topography: Japan occupies an area slightly smaller than California. The terrain is mostly rugged and mountainous.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|--------------------------|----------------------|------------------------------|-------|-------|-----|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 58.5 ¹⁴⁵ | 30,927,003 | 24.2 | 12.4 | 3.3 | 8.5 | 0.0 |

21. Korea

Regulation: The Korea Communications Commission (KCC) was created when the government combined the Ministry of Information and Communication (MIC) and Korean Broadcasting Commission (KBC) to form the KCC in March 2008.¹⁴⁶ This converged body regulates telecommunications and broadcasting. The Korea Communications Standards Commission (KCSC) is responsible for ensuring “public value and fairness” of broadcasting and Internet content.¹⁴⁷ The KCSC is a non-governmental, independent organization, and its relationship with the rest of the government is unique. If the KCSC decides that government action is necessary to remedy a situation, it must make a recommendation to the KCC.

The u-Korea Master Plan was adopted in 2006. This plan’s goal was “to achieve the world’s first ubiquitous society” and to have every household, regardless of income, be equipped with access to the Internet with a minimum transmission speed of 1 Mbps. In February 2009, Korea announced plans to

¹⁴⁴ MIC Communication News, Ministry of Internal Affairs and Communications, Vol. 19, No. 1 (Apr. 25, 2008) (last visited May 18, 2009), available at http://www.soumu.go.jp/main_sosiki/joho_tsusin/eng/Releases/NewsLetter/Vol19/Vol19_01/Vol19_01.html.

¹⁴⁵ This figure only includes broadband access via a computer.

¹⁴⁶ See KCC, available at <http://www.kcc.go.kr/user/ehpMain.do>.

¹⁴⁷ See KCSC, available at http://www.kocsc.or.kr/eng/01_About/Message.php.

upgrade the national network to offer 1 Gbps service by 2012. Key applications include e-government and e-commerce.¹⁴⁸

Competition: Competitors in Korea's broadband market include KT Corp., SK Broadband, and LG Powercom. KT Corp. and SK Broadband are the major providers, and LG Powercom, Dreamline, and LG Dacom are smaller providers. One of the key services that drove broadband adoption in Korea in the early stages of its broadband development was online interactive games.¹⁴⁹ Currently, the two most popular broadband services in Korea are music downloads and gaming.¹⁵⁰

Other Media: AM (96); FM (322); TV (57).

Topography: Korea occupies an area slightly larger than Indiana. The terrain consists of mostly hills and mountains with wide coastal plains in the west and the south.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|-----|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 94.3 ¹⁵¹ | 15,938,529 | 32.8 | 15.1 | 10.5 | 7.2 | 0.0 |

22. Latvia

Regulation: The Department of Communications in the Ministry of Transport (MOT) is responsible for policy in the communications sector of Latvia.¹⁵² The Public Utilities Regulation Commission (Sabiedrisko pakalpojumu regulēšanas komisija or SPRK) was established in 2001 as a unified regulatory body with oversight of the telecommunications, energy, railway and postal sectors.¹⁵³ The SPRK approves tariffs, issues licenses and supervises technical regulations and standards.

There are no fully unbundled local loops in Latvia, and the typical wholesale access offer usually amounts to a simple resale agreement in which both the brand and the retail price of the service are controlled by the fixed incumbent.

The Broadband Network Development Strategy 2006-2012, adopted in December 2005, uses state and EU structural funds (ERDF) to cover up to 35% of the total costs for the expansion of high-quality broadband network infrastructure in rural areas.¹⁵⁴

¹⁴⁸ <http://www.ipc.go.kr/servlet/download?pt=ipceng/public&fn=u-KOREA+Master+Plan+.pdf>.

¹⁴⁹ Kim Yongsoo et al., World Bank, "Building broadband: Strategies and policies for the developing world" (Jan. 2010), available at <http://web.worldbank.org/WBSITE/EXTERNAL/TOPICS/EXTINFORMATIONANDCOMMUNICATIONANDTECHNOLOGIES/0,,contentMDK:20795271~pagePK:210058~piPK:210062~theSitePK:282823,00.html#2010> (download from 2010 publications list).

¹⁵⁰ *Id.*

¹⁵¹ This includes broadband access modes such as DSL, cable, other fixed and wireless broadband via computers, and mobile phone access.

¹⁵² See MOT, available at <http://www.sam.gov.lv/satmin/content/?cat=134>.

¹⁵³ See SPRK, available at <http://www.sprk.gov.lv/?setl=2>.

¹⁵⁴ See European Union "eGovernment Fact Sheet – Latvia – Strategy (last updated September 2009)," available at <http://www.epractice.eu/en/document/288288>.

Competition: Competitors to the incumbent carrier, Lattelkom, include Telekom Baltija, Apollo (Lattelcom), Baltkom, Latnet, Izzi (formerly Telia Multicom), and Vernet. The broadband market is led by Lattelcom, but Telekom Baltija, Baltkom, and Izzi (formerly Telia Multicom) are among the alternative operators providing competition. Cable companies and fixed wireless companies serve 43% of the total broadband lines and provide infrastructure-based competition in some parts of the country. Lattelcom and Baltkom have both invested in FTTH networks in the capital of Riga.

Other Media: AM (8); FM (62); TV (37).

Topography: Latvia occupies an area slightly larger than West Virginia. The terrain is mostly fertile, low-lying plains with some hills in the east.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 146,000 ¹⁵⁵ | 6.44 ¹⁵⁶ | Data N/A | Data N/A | Data N/A | Data N/A |

23. Lithuania

Regulation: The Information and Communication Technology Department of the Ministry of Transport and Communications (MTC) is responsible for making policy in the communications sector.¹⁵⁷ The independent regulator is the Communications Regulatory Agency (Ryšių Reguliavimo Tarnyba or RRT).¹⁵⁸ RRT promulgates rules and regulations on interconnection of telecommunications networks, pricing and the provision of telecommunications services.

The Development Strategy of the Broadband Infrastructure of Lithuania for 2005-2010 was published on December 31, 2002. Its goals include ensuring availability of broadband to 98% of small and medium enterprises by 2010.¹⁵⁹ It also established the public company “Placiajuostis Internetas,” a non-profit organization, to develop rural broadband access and training.¹⁶⁰

Competition: The leading competitors to incumbent Teo LT are Balticum, Infrostruktura, Lithuanian Telecom (Takas), Microlink, Omnitel (TeliaSonera), Penkj Kontinentai, Tele2, and Vinita. The broadband market is led by Teo LT. Competition to Teo LT in the broadband Internet market is provided through cable broadband, alternative infrastructure (via competitive local exchange carriers and satellite operators) and the resale of DSL services.

Other Media: AM (29); FM (142); TV (44).

Topography: Lithuania occupies an area slightly larger than West Virginia. The terrain consists of fertile lowlands and many scattered small lakes.

¹⁵⁵ ITU Statistics Database.

¹⁵⁶ *Id.*

¹⁵⁷ See MTC, available at <http://www.transp.lt/en>.

¹⁵⁸ See RRT, available at <http://www.rrt.lt/index.php?-1341057335>.

¹⁵⁹ See <http://www.transp.lt/Default.aspx?Element=ViewArticle&Lang=EN&TopicID=215&ArticleID=1936>.

¹⁶⁰ See http://www.placiajuostis.lt/index.php?option=com_content&task=view&id=4&Itemid=4&lang=en.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 590,100 ¹⁶¹ | 17.77 | Data N/A | Data N/A | Data N/A | Data N/A |

24. Luxembourg

Regulation: The Ministry of Media and Communications (MMC) is responsible for telecommunications policy.¹⁶² The Institut Luxembourgeois de Regulation (ILR) regulates the telecommunications sector under the regulatory guidelines of the EC's regulatory framework.¹⁶³

There are over 4,000 unbundled lines in Luxembourg; most of them are fully unbundled in the business market. In February 2007, the ILR and the incumbent agreed to lower collocation costs.

Competition: Competitors include Luxembourg Online, P&T Luxembourg, and Orange.¹⁶⁴ Incumbent P&T Luxembourg is the largest provider, holding a 68% share in the country's broadband market. Competition to P&T Luxembourg is provided via cable broadband, the resale of DSL service, and local-loop unbundling. Resale is the largest form of alternative broadband access in Luxembourg and accounts for 10% of the broadband market.

Other Media: AM (2); FM (6); TV (5).

Topography: Luxembourg occupies an area slightly smaller than Rhode Island. The terrain is mostly comprised of gently rolling uplands with broad, shallow valleys. In the north, there are uplands to slightly mountainous terrain and a steep slope down to Moselle flood plain in the southeast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 61.0 | 153,172 | 31.3 | 0.0 | 5.3 | 26.0 | 0.0 |

25. Malta

Regulation: The Ministry for Infrastructure Transport and Communications (MITC) is responsible for making policy in the communications sector.¹⁶⁵ The Malta Communications Authority (MCA) was established in January 2001, under the Electronic Communications (Regulations) Act of 1997.¹⁶⁶ The MCA is tasked with regulating electronic communications and e-commerce. The Act of 1997, as amended, includes requirements for interconnection and access to unbundled loops for competitive providers.

¹⁶¹ ITU Statistics Database.

¹⁶² See MMC, available at, at <http://www.mediacom.public.lu/>.

¹⁶³ See ILR, available at <http://www.ilr.public.lu/>.

¹⁶⁴ In Appendix C, we include price information for Cegecom. See Cegecom website, available at <http://www.libero.it/>. <http://www.cegecom.com>.

¹⁶⁵ See MITC, available at <https://mitc.gov.mt/?lid=1>.

¹⁶⁶ See MCA, available at <http://www.mca.org.mt/>.

Malta's broadband plan is titled "The Smart Island: The National ICT Strategy for Malta (2008-2010)." Among its goals for 2010 are (1) to connect 80% of households to broadband, (2) to ensure that 75% of the population are "ICT-literate," and (3) to establish 101 high-speed broadband access centers in communities throughout Malta.¹⁶⁷

Competition: Competitors in the broadband market include the incumbent carrier Go, Melita Cable, Vodafone and other smaller ISPs.¹⁶⁸ Go uses DSL, Melita Cable uses cable facilities, and Vodafone uses WiMAX.

Other Media: AM (1);¹⁶⁹ FM (18); TV (6).

Topography: Malta occupies an area that is slightly less than twice the size of Washington, DC. The terrain is mostly low, rocky flats to dissected plains with many coastal cliffs.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-----------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 98,800 ¹⁷⁰ | 24.25 ¹⁷¹ | Data N/A | Data N/A | Data N/A | Data N/A |

26. Netherlands

Regulation: The Directorate-General for Energy and Telecom (DGET) within the Dutch Ministry of Economic Affairs, is charged with promoting the availability and use of high-quality electronic communication networks throughout the Netherlands.¹⁷² Specifically, the DGET promotes the organization and operation of markets for energy, electronic communication and postal services, including advocating for users' rights and protection, and, where necessary, encourages the ICT market to develop facilities, products and services for electronic communication. The Independent Post and Telecommunications Authority of the Netherlands (OPTA) is the independent regulator.¹⁷³ OPTA is charged with promoting competition in the national telecommunications market. Every three years it is required to conduct analyses of all electronic communications services and examine price variations, the breakdown of the market and the opportunities available to new entrants.

Nederland BreedbandLand (NBL), created in 2002, is the independent national platform for the provision of aid and incentives to the social sectors for the "better and smarter" use of broadband. The NBL identifies and accumulates knowledge and experience from broadband projects and bundles it in the Kennisbank (Knowledge Bank). The NBL disseminates the knowledge through seminars, workshops and other related events. In addition, the NBL tracks potential "breakthrough" community broadband projects

¹⁶⁷ See *The Smart Island, The National ICT Strategy for Malta 2008-2010*, available at <http://www.thesmartisland.gov.mt/>.

¹⁶⁸ MCA, Wholesale Broadband Access Market: Identification and Analysis of Markets, Determination of Market Power and Setting of Remedies, Final Decision at 40 (Nov. 14, 2008), available at <http://www.mca.org.mt/infocentre/openarticle.asp?id=1241&pref=48>.

¹⁶⁹ See <http://www.mds975.co.uk/masts/malta01.html>.

¹⁷⁰ ITU Statistics Database.

¹⁷¹ *Id.*

¹⁷² See DGET, available at http://ez.nl/english/Organisation/Organisation_chart/Directorate_General_for_Energy_and_Telecom.

¹⁷³ See OPTA, available at <http://www.opta.nl/en/>.

on a sector-by-sector basis to support their development into best practices and to ensure expansion to the national level. The NBL primarily focuses on the following sectors: (1) healthcare, (2) small and mid-range enterprises, (3) education, (4) security, (5) government, (6) living & working, and (7) traffic & transport.¹⁷⁴ In 2004, the Ministry of Economic Affairs released a Broadband Strategy Outline.¹⁷⁵

Competition: The Netherlands has one of the highest broadband penetration rates in Europe.¹⁷⁶ Broadband providers in the Netherlands include KPN,¹⁷⁷ Orange,¹⁷⁸ Tele2-Versatel, UPC, BBned, Ziggo and other cable providers. The broadband sector reflects competition between the incumbent telecommunications carrier KPN, cable operators and other competitors utilizing unbundled local loops.¹⁷⁹ Ziggo is the largest broadband provider with over a million broadband customers, while KPN is the second largest provider.¹⁸⁰

Other Media: AM (4); FM (567); TV (342).

Topography: Netherlands occupies an area that is slightly less than twice the size of New Jersey. The terrain is mostly coastal lowland and reclaimed land with some hills in the southeast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 74.0 | 6,262,500 | 38.1 | 1.1 | 13.7 | 22.5 | 0.8 |

27. Norway

Regulation: The Ministry of Transport and Communications (MTC) monitors telecommunications markets in Norway.¹⁸¹ The Norwegian Post and Telecommunications Authority (NPT) is an autonomous, self-financed administrative agency under the MTC.¹⁸² The NPT is responsible for monitoring private sector compliance with national telecommunications statutes, regulations and license requirements; supervising telecommunications providers; supervising registries; assigning domain names; and contingency planning for national network security.

¹⁷⁴ See <http://www.nederlandbreedbandland.nl/page/English>.

¹⁷⁵ Ministry of Economic Affairs (NL), "The Broadband Paper; A question of pace and better utilization" (May, 2004).

¹⁷⁶ See "ICT Statistics: Internet Indicators: Subscribers, Users, Broadband Subscribers," ITU, http://www.itu.int/ITU-D/icteye/Reporting/ShowReportFrame.aspx?ReportName=/WTI/InformationTechnologyPublic&RP_intYear=2008&RP_intLanguageID=1.

¹⁷⁷ In Appendix C, we include price information for HetNet and XL4ALL which are both brand names of KPN. See KPN website, "About Us" available at http://kpn.com/reporting08/review08/group_at_a_glance/index.html.

¹⁷⁸ T-Mobile operates under the Orange brand in the Netherlands.

¹⁷⁹ See "Broadband ULL," OPTA, <http://www.opta.nl/nl/wat-doet-opta/markten/breedband-ull/>; see also "Broadband WBT," OPTA, <http://www.opta.nl/nl/wat-doet-opta/markten/breedband-wbt/>.

¹⁸⁰ "This Is KPN," KPN, <http://www.kpn.com/corporate/en/Company-profile-1/company-1/This-is-KPN.htm>; Gertjan Groen, "De drie grote kabelbedrijven die zich hebben verenigd in Zesko, gaan in mei verder onder de nieuwe naam Ziggo. Later dit jaar zullen klanten kennismaken met het nieuwe merk," Telecomwereld (Jan. 29, 2008), <http://telecomwereld.nl/n0002471.htm>.

¹⁸¹ See MTC, available at <http://www.regjeringen.no/en/dep/sd.html?id=791>.

¹⁸² See NPT, available at http://www.npt.no/portal/page/portal/PG_NPT_NO_EN/PAG_NPT_EN_HOME.

Competition: The broadband penetration rate in Norway has increased steadily to become one of the highest in Europe. The two leading broadband competitors in Norway are Telenor and NextGenTel. Telenor has just over 50% of broadband subscribers.¹⁸³

Other Media: AM (5); FM (160); TV (69).

Topography: Norway occupies an area slightly larger than New Mexico. Its terrain consists of mostly high plateaus and rugged mountains broken by fertile valleys. There are also small, scattered plains, and the arctic tundra in the north. The coastline is deeply indented by fjords.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 73.0 | 1,645,619 | 34.5 | 3.5 | 7.7 | 22.7 | 0.7 |

28. Poland

Regulation: The Ministry of Infrastructure (MOI) is responsible for telecommunications policy.¹⁸⁴ In January 2006, Poland established the Office of Electronic Communications (UKE), which is the national regulatory authority for the telecommunications sector.¹⁸⁵ The UKE is charged with: analyzing the Polish market to confirm that there is no distortion or restriction of competition; ensuring efficient investment in infrastructure and promoting innovation; encouraging efficient use and effective management of radio frequencies and numbering; supervising orbital and numbering resources; licensing operators; enforcing compliance with electromagnetic compatibility requirements; and cooperating with the Polish Office for Competition and Consumers Protection in matters related to the enforcement of the rights of citizens using postal and telecommunications services.

In April, 2009, the government announced plans to direct 300 million Euro (US\$397 million) for broadband expansion, with a goal of making broadband available to 90% of the households and 100% of businesses and public institutions by 2013.

Competition: Telekomunikacja Polska (TP), the incumbent wireline carrier, holds approximately 40% of the broadband market, while cable operators account for another 25%. The leading broadband cable providers include UPC Polska, Vectra, Aster City, and Multimedia Polska. Other competitors in the broadband market include resellers, Netia, Dialog, Exatel, Tele2, NOM, GTS, and Energis; and alternative infrastructure providers Netia and Telefonía Dialog.

Other Media: AM (14); FM (63); TV (75).

Topography: Poland occupies an area slightly smaller than New Mexico. Poland's terrain is mostly flat plains with mountains along the southern border.

¹⁸³ In Appendix C, we include price information for Ventelo and Get, two competitive entrants offering broadband services. See Ventelo website, available at <http://www.ventelo.no/om-ventelo/fakta-om-ventelo/eierforhold.html> and Get website, available at <http://get.no/web/omGet>.

¹⁸⁴ See MOI, available at <http://www.en.mi.gov.pl/>.

¹⁸⁵ See UKE, available at http://en.uke.gov.pl/ukeen/index.jsp?place=Menu07&news_cat_id=79&layout=0.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|-----|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 37.9 | 4,307,992 | 11.3 | 0.1 | 3.7 | 7.4 | 0.1 |

29. Portugal

Regulation: The Autoridade Nacional de Comunicações (ANACOM) is the independent regulator.¹⁸⁶ ANACOM has regulatory authority over postal and electronic communications. The Competition Authority, an independent and financially autonomous institution, is empowered to deal with competition issues in all sectors of the economy, including regulated sectors such as electronic communications.

In April 2006, ANACOM set maximum charges for local-loop unbundling offers, and in June 2007, it approved a decision regarding collocation procedures.

In January 2009, Portugal's government announced an 800 million Euro (US\$1.1 billion) credit line for the rollout of next-generation broadband networks in the country. This is the first step in a 2.18 billion Euro (US\$3 billion) plan announced in December 2008 to boost the country's economy.¹⁸⁷

Competition: Portugal's leading broadband service providers include Portugal Telecom (PT), ZON Multimedia/TV Cabo, Sonaecom Group, and Cabovisão.¹⁸⁸ In the third quarter of 2009, Portugal Telecom held 43.3% of broadband customer shares, ZON Multimedia/TV Cabo held 32.3%, Sonaecom held 10.4%, and Cabovisão held 8%.¹⁸⁹

Other Media: AM (2); FM (63); TV (42).

Topography: Portugal occupies an area slightly smaller than Indiana. The terrain is mountainous north of the Tagus River with rolling plains in the south.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 39.3 | 1,809,354 | 17.0 | 0.1 | 6.7 | 10.0 | 0.2 |

30. Romania

Regulation: The policymaker is the Ministry of Communications and Information Society.¹⁹⁰ The Romanian telecommunications regulator is the National Authority for Management and Regulation in Communications (ANCOM, previously ANC).¹⁹¹

¹⁸⁶ See ANACOM, available at http://www.anacom.pt/render.jsp?categoryName=CATEGORY_ROOT&languageId=1.

¹⁸⁷ See <https://www.communicationsdirectnews.com/do.php/140/33928?199>.

¹⁸⁸ See ANACOM, available at <http://www.anacom.pt/render.jsp?contentId=996599>.

¹⁸⁹ *Id.*

¹⁹⁰ See Ministry, available at <http://www.mcsi.ro/>.

¹⁹¹ See ANCOM, available at <http://www.ancti.ro/>.

The Ministry of Communications and Information Society issued a broadband strategy in 2009, which called for the installation of 500 hotspots all over the country.¹⁹² The “Digital Romania - eStrategy for an Information Society” initiative and the National Broadband Strategy are the cornerstones of Romania’s ICT efforts.¹⁹³ Among Romania’s priorities are e-government and projects for education, health, culture and tourism and a portal to integrate all cultural, tourist, historical, geographical, religious and territorial administrative information.¹⁹⁴

Competition: Romtelecom, the incumbent wireline carrier, is the largest competitor in the broadband market, holding approximately 25% of the market. Broadband competitors include broadband cable providers, UPC Romania, RCS&RDS; resellers, PCNet, Eufonica; and alternative service providers, RCS&RDS and Atlas Telecom.

Other Media: Radio: (698),¹⁹⁵ TV (623).

Topography: Romania occupies an area slightly smaller than Oregon. The central Transylvanian Basin is separated from the Moldavian Plateau in the east by the Eastern Carpathian Mountains, and it is separated from the Walachian Plain in the south by the Transylvanian Alps.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|--------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 2,510,000 ¹⁹⁶ | 11.75 ¹⁹⁷ | Data N/A | Data N/A | Data N/A | Data N/A |

31. Singapore

Regulation: The Ministry of Information, Communications and the Arts (MICA) develops policy on information technology and telecommunications, as well as the arts. MICA’s mission is to maintain the “Singaporean identity” by developing and promoting the arts, culture, design, media, and information technology.

The Infocomm Development Agency (IDA) is Singapore’s telecommunications regulator. Its duties include licensing, industry regulation, information security, and developing necessary infrastructure for e-commerce, multimedia, content hosting, and other services. IDA represents Singapore in the Asia-Pacific Economic Cooperation (APEC) Telecommunications and Information Working Group.

In 2006, Singapore launched Intelligent Nation 2015 (iN2015), a 10-year plan for ICT development. Under this plan, Singapore is deploying a seamless next generation broadband network with both a wireline and a wireless part. The wireline portion is an ultra high-speed, all-fiber network that will provide access speeds of 1 Gbps and more to all physical addresses in Singapore, and is expected to reach 95% of homes and offices by 2012. The network will be wireline and wireless, and open to all service

¹⁹² [http://www.ecomunitate.ro/en/Internet_gratuit_pentru_zeci_de_mii_de_galateni_\(17450\).html](http://www.ecomunitate.ro/en/Internet_gratuit_pentru_zeci_de_mii_de_galateni_(17450).html).

¹⁹³ See Connect-World, available at http://www.connect-world.com/articles/recent_article.php?oid=Europe_II_2009_02.

¹⁹⁴ *Id.*

¹⁹⁵ The majority of stations in Romania are FM. See generally http://news.bbc.co.uk/2/hi/europe/country_profiles/1057466.stm.

¹⁹⁶ ITU Statistics Database.

¹⁹⁷ *Id.*

providers, competing with the two facilities-based operators, SingTel (incumbent and majority State-owned) and StarHub.¹⁹⁸

Competition: SingTel and StarHub are the leading competitors in the broadband market. SingTel had 495,000 retail broadband subscribers, representing 51% of the country's broadband subscriber base as of the end of 2008. StarHub, a major cable broadband service provider, had 373,000 broadband subscribers with a market share of 38%. StarHub is the leading cable broadband service and alternative infrastructure service provider, while PacNet is the leading reseller of broadband Internet services.

Other Media: AM (0); FM (19); TV (1)¹⁹⁹

Topography: Singapore occupies an area that is slightly more than 3.5 times the size of Washington, D.C. The terrain consists of lowland and a gently undulating central plateau, which contains a water catchment area and nature preserve.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|--------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 1,003,100 ²⁰⁰ | 21.74 ²⁰¹ | Data N/A | Data N/A | Data N/A | Data N/A |

32. Slovak Republic

Regulation: The Ministry of Transport, Posts and Telecommunications (MTPT) sets policy and controls the government's ownership share in Slovak Telecom, the incumbent wireline carrier.²⁰² The Telecommunications Regulatory Authority of the Slovak Republic (Telekomunikačný úrad Slovenskej republiky or TÚSR) is the independent regulator.²⁰³ The TÚSR implements the Act on Electronic Communications, a law that entered into force in January 2004.

Adopted in 2004, the National Strategy for the Broadband Access to Services of the Information Society in the Slovak Republic describes broadband availability in the Slovak Republic and sets a goal to achieve the level enjoyed by developed EU nations within five to eight years. Steps to reach that goal include legislative changes, efficient use of spectrum, completing a digital television transition by 2012, and state support of broadband access development.²⁰⁴

Competition: Slovak Telekom controls over 90% of the DSL market. Other competitors include broadband cable providers, UPC Slovakia, Satro; resellers, GTS, Dial Telecom, Slovanet, and Swan; alternative infrastructure providers, Orange, Slovanet, Slovenkse Elektarne, Zeleznicne Telekomunikacie, Slovensky Plynarensky Priemysel, and Swan; and fixed wireless access providers, GTS Nextra, Slovanet and Swan.

¹⁹⁸ See <http://www.ida.gov.sg/Infrastructure/20060919190208.aspx>.

¹⁹⁹ Government-owned MediaCorp is Singapore's only terrestrial broadcaster, with eight television channels providing programming in several languages. See <http://www.corporate.mediacorp.sg/tv/>.

²⁰⁰ ITU Statistics Database.

²⁰¹ *Id.*

²⁰² See MPTP, available at <http://www.telecom.gov.sk/index/index.php?lang=en>.

²⁰³ See TÚSR, available at <http://www.teleoff.gov.sk/index.php?ID=9>.

²⁰⁴ See <http://www.telecom.gov.sk/index/index.php?ids=8811&lang=en>.

Other Media: AM (1); FM (22); TV (37).

Topography: The Slovak Republic occupies an area about twice the size of New Hampshire. The terrain consists of rugged mountains in the central and northern region and lowlands in the south.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|-----|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 35.3 | 680,351 | 12.6 | 2.7 | 1.3 | 6.6 | 2.0 |

33. Slovenia

Regulation: Under the auspices of the Ministry of Economy, the Post and Electronic Communications Agency (Agencija za pošto in elektronske komunikacije or APEK) was created in 2004 as an independent regulatory body that regulates electronic communications, postal services and radio and television programs.²⁰⁵

Slovenia's "Strategy of the Development of Information Society" was initially created in 2007 in accordance with the European initiative i2010.²⁰⁶ The strategy was revised in 2008, and commits the government of Slovenia to an investment of over 15 million Euro (USD\$20.4 million) over the next year, with a goal of extending broadband (at least 1 Mbps) to households and public institutions by the end of 2010.²⁰⁷

Competition: Telekom Slovenije, the incumbent wireline carrier, is the leading competitor in the broadband market, holding 49.1% of the market as of the end of 2008. T-2, a broadband service provider, follows with 18.2%. Amis, UPC, and Tus Telekom, also broadband service providers, all held less than 10% of the broadband market. Broadband competitors include broadband cable service providers, UPC Telemach, Ljubljanski, Kabel; alternative infrastructure providers, T-2; and reseller, T-2. At the end of 2008, competitors provide service to 58,200 subscribers with unbundled loops and 14,700 subscribers with bitstream access.²⁰⁸ Providers used FTTH for 27,100 subscribers.²⁰⁹

Other Media: AM (10), FM (230), TV (31).

Topography: Slovenia occupies an area slightly smaller than New Jersey. The terrain consists of a short coastal strip on the Adriatic, an alpine mountain region adjacent to Italy and Austria, and a mix of mountains and valleys with numerous rivers to the east.

²⁰⁵ See APEK, available at <http://www.apek.si/en/strategy>.

²⁰⁶ Government of the Republic of Slovenia, Development Strategy for the Information Society in the Republic of Slovenia si2010 (June 2007) available at http://mvzt.gov.si/fileadmin/mvzt.gov.si/pageuploads/pdf/informacijska_druzba/61405-EN_Strategija_razvoja_informacijske_druzbe_v_RS_si2010.pdf.

²⁰⁷ CESInfo, DICE Report, available at http://www.cesifo-group.de/portal/page/portal/DICE_Content/INFRASTRUCTURE/COMMUNICATION_NETWORKS/Cable%20Networks/dicereport309-db1.pdf.

²⁰⁸ APEK, Annual Report 2009, 2-13, available at http://www.apek.si/datoteke/File/2009/EN/Annual_Report_2008_web1_090723.pdf.

²⁰⁹ *Id.*

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 426,600 ²¹⁰ | 21.17 ²¹¹ | Data N/A | Data N/A | Data N/A | Data N/A |

34. Spain

Regulation: The Secretary of Telecommunications in the Ministry of Industry, Tourism and Trade is responsible for proposing and carrying out government policy in the areas of telecommunications and audiovisual media. Spain's telecommunications market is regulated by the Comisión del Mercado de las Telecomunicaciones (CMT), Spain's independent regulator. CMT was created by statute in 1997 to adjudicate disputes between operators and service providers, promote competition in the ICT market, and grant licenses to domestic and foreign telecommunications companies.²¹²

In November 2009, the Spanish government announced that Spanish citizens will have a legal right starting in 2011 to buy broadband Internet service of at least 1 Mbps at a regulated price wherever they live.²¹³ The goals of Spain's "Avanza Plan" include: increasing the diffusion of Internet services in every Spanish community, closing the digital divide in order to improve the quality of life of its citizens, and increasing the nation's public expenditure in ICT to 7% of Spain's GDP by 2010.²¹⁴

Competition: Telefónica, the incumbent wireline carrier, leads the broadband market with a market share of around 57% at end of 2008. Its largest competitors are Ono and France Telecom's Orange, followed by Vodafone and Jazztel. Broadband services are provided through broadband cable providers, Ono, R Cable, Euskaltel, Telecable; and resellers, Orange/Ya.com, Jazztel, Vodafone/Tele2.

Other Media: AM (18); FM (250); TV (379).

Topography: Spain occupies an area that is slightly more than twice the size of Oregon. The terrain consists of a large, flat to dissected plateau surrounded by rugged hills with the Pyrenees in the north.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 44.6 | 9,477,901 | 20.8 | 0.1 | 4.0 | 16.6 | 0.2 |

35. Sweden

Regulation: The Post-och Telestyrelsen (PTS) is Sweden's independent telecommunications regulator.²¹⁵ Organizationally, it falls within the Ministry of Enterprise, Energy and Communications (MEEC),²¹⁶ which is also responsible for the government's stake in TeliaSonera, the incumbent fixed

²¹⁰ ITU Statistics Database.

²¹¹ *Id.*

²¹² CMT, Creation and Objectives, available at http://www.cmt.es/cmt_ptl_ext/SelectOption.do?nav=presentacion.

²¹³ Reuters, available at <http://www.reuters.com/article/idUSLH61554320091117>.

²¹⁴ OECD, Information on Society Strategies: From Design to Implementation, The Case of Spain's Plan Avanza, available at <http://www.planavanza.es>.

²¹⁵ See PTS, available at <http://www.pts.se/en-gb/>.

²¹⁶ See MEEC, available at <http://www.sweden.gov.se/sb/d/2067>.

telephony operator. Under the national telecommunications law, however, the MEEC is barred from any involvement with or direct management of the incumbent operator. Further, the Swedish Constitution safeguards the autonomy and independence of PTS by prohibiting any interference by Ministries in PTS's day-to-day activities. PTS is governed by a nine-member Board of Directors, and headed by a Director-General.

Sweden published its Broadband Strategy for Sweden in November 2009.²¹⁷ Sweden's goal is for 40% of all households and businesses to have access to broadband at a minimum speed of 100 Mbps by 2015 and for 90% to have access to that speed by 2020.

Competition: TeliaSonera is the leading competitor in the broadband market, holding 40% of the market share in 2008. The other competitors include Com hem (cable modem), B2 Bredband (resale), Tele2, Glocalnet, UPC, Telenor and Hi3G Access.

Other Media: AM (1);²¹⁸ FM (124); TV (252).

Topography: Sweden occupies an area that is slightly larger than California. The terrain is mostly flat or gently rolling lowlands with mountains in the west.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|-------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 70.7 | 2,915,000 | 31.6 | 6.7 | 6.3 | 18.5 | 0.1 |

36. Taiwan

Regulation: The Ministry of Transportation and Communications (MOTC) is the policy-maker for telecommunications.²¹⁹ MOTC is responsible for devising an integrated telecommunications development plan, supervising telecommunications enterprises, and promoting the development of an information society to enhance the public welfare. In 2006, Taiwan created the National Communications Commission (NCC), an independent regulator for telecommunications and broadcasting.²²⁰

Over the past ten years, Taiwan has pursued a series of ICT infrastructure development projects, beginning with the E-Government initiative in 2000, through the E-Taiwan plan in 2002, and continuing with the ongoing National Information and Communications Initiative (NICI), or M-Taiwan, in 2005. M-Taiwan is intended to expand broadband across Taiwan and provide fiber-to-the-home in major urban areas. M-Taiwan offered computer equipment and Internet access to households in rural and mountainous areas and established "digital opportunity centers" in 168 rural townships. In 2008, Taiwan adopted the U-Taiwan and I-Taiwan plans to establish an "Intelligent Taiwan" with an advanced

²¹⁷ See <http://www.sweden.gov.se/sb/d/2025>

²¹⁸ See <http://www.sr.se/sida/artikel.aspx?ProgramId=2438&artikel=733463> (Swedish Radio broadcasts on the AM dial via AM, satellite and Internet. Languages for international broadcasting are Swedish, English, German, Russian and Belarusian.)

²¹⁹ See MOTC, available at <http://www.motc.gov.tw/mocwebGIP/wSite/mp?mp=2>

²²⁰ See NCC, Introduction of the National Communications Commission, available at http://www.ncc.tw/english/content.aspx?site_content_sn=2&is_history=0. The NCC was authorized by the Fundamental Communications Basic Act of 2004 and the National Communications Commission Organization Act of 2005.

“ubiquitous network society” and to fund education, ICT equipment and applications and IT-related cultural projects.

Competition: Chunghwa Telecom, the incumbent wireline carrier, is the leading competitor in the broadband market, with 3.521 million retail broadband subscribers as of the end of 2008. Other competitors include Seednet, Asia Pacific Broadband Telecom (cable), and New Century Infocomm (cable).

Other Media: AM (21); FM (143); TV (76).

Topography: Taiwan occupies an area slightly smaller than Maryland and Delaware combined. Two-thirds of the eastern region is mostly rugged mountains and the western region consists of flat to gently rolling plains.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|-----------------------|--------------------------|------------------------------|----------|----------|----------|----------|
| | | Total | Fiber | Cable | DSL | Other |
| Data N/A | 5,024,400 ²²¹ | 21.81 ²²² | Data N/A | Data N/A | Data N/A | Data N/A |

37. United Kingdom

Regulation: Ofcom was established as a corporate body by the Office of Communications Act 2002.²²³ Ofcom is the regulator for the UK communications industries, with responsibilities across television, radio, telecommunications and wireless communications services.²²⁴ Ofcom’s responsibilities include managing spectrum and ensuring that a “wide range of electronic communications services – including high speed data services – is available throughout the UK.”²²⁵

The government’s “Digital Britain: Final Report,” released in June 2009, outlines the nation’s broadband strategy.²²⁶ In the report, the government committed to providing all British households with broadband access at a minimum speed of 2 Mbps by 2012. The network will consist primarily of DSL lines and fiber to the street cabinet, supplemented by mobile broadband and possible satellite inflit for remote areas. Ofcom has also worked to encourage investment and competition in “super-fast broadband.”²²⁷ Key applications include digital delivery of public services, on-line availability of government information, telemedicine, education, and finances.

Competition: The lead broadband service provider in 2008 was BT Retail with 26.4% of the retail broadband market. Other competitors include Virgin Media, Carphone Warehouse (unbundled loop),

²²¹ ITU Statistics Database.

²²² *Id.*

²²³ Office of Communications Act 2002, 2002 Chapter 11, available at http://www.opsi.gov.uk/acts/acts2002/ukpga_20020011_en_1.

²²⁴ See Ofcom, Statutory Duties and Regulatory Principles, available at <http://www.ofcom.org.uk/about/sdrp/>.

²²⁵ *Id.*

²²⁶ Digital Britain: The Final Report, (June 16, 2009), available at http://www.culture.gov.uk/what_we_do/broadcasting/6216.aspx.

²²⁷ Ofcom, Delivering Super-fast Broadband in the UK: Promoting Investment and Competition, (Mar. 3, 2009), available at http://www.ofcom.org.uk/consult/condocs/nga_future_broadband/statement/statement.pdf.

Tiscali (unbundled loop), BskyB, Orange (unbundled loop), Vodafone (resale), Post Office (resale) and many smaller ISPs.

Other Media: AM (206); FM (696); TV (940).

Topography: The United Kingdom occupies an area that is slightly smaller than Oregon. The terrain consists of mostly rugged hills and low mountains with level to rolling plains in the east and southeast.

| Access per 100 people | Total Subscribers | Subscriptions per 100 people | | | | |
|--------------------------|----------------------|------------------------------|-------|-------|------|-------|
| | | Total | Fiber | Cable | DSL | Other |
| 61.5 | 17,742,676 | 28.9 | 0.0 | 6.1 | 22.8 | 0.1 |